

AI/DS

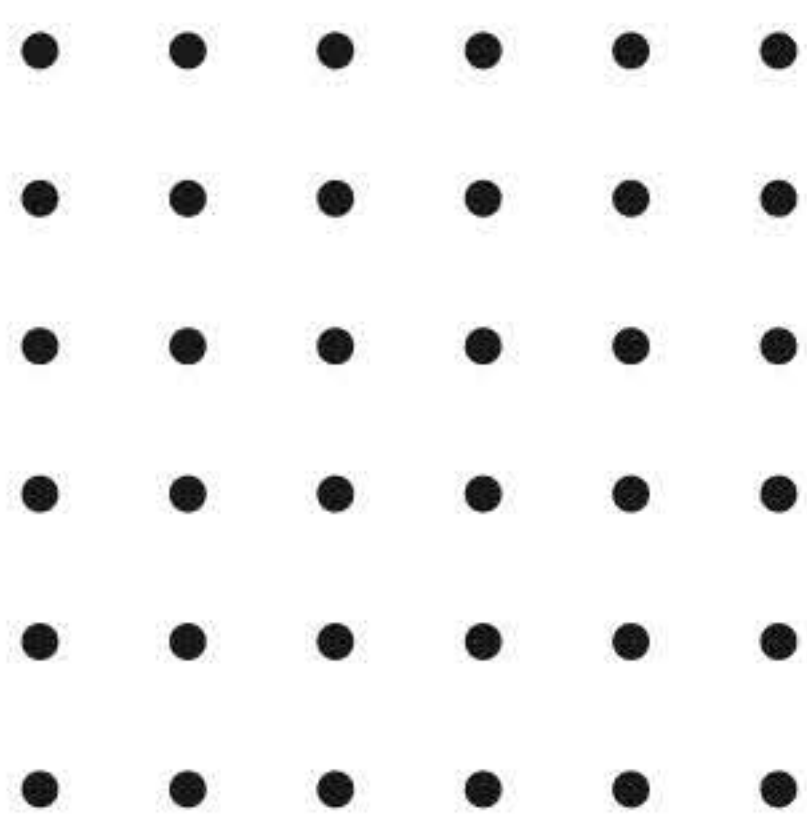
2026 - 2027

TITLE &
ABSTRACT



Advanced Academic Final Year Projects





TalentBridge – Intelligent Candidate Screening and Ranking System

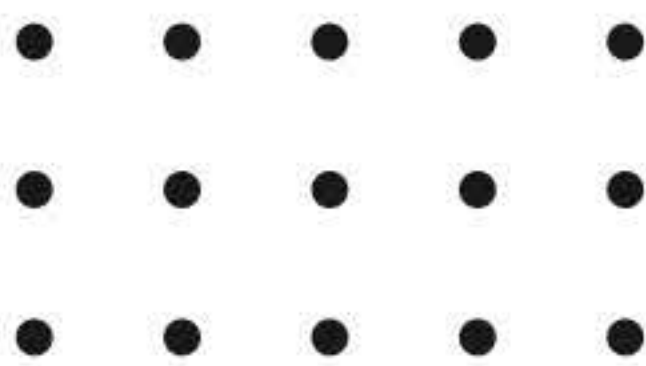
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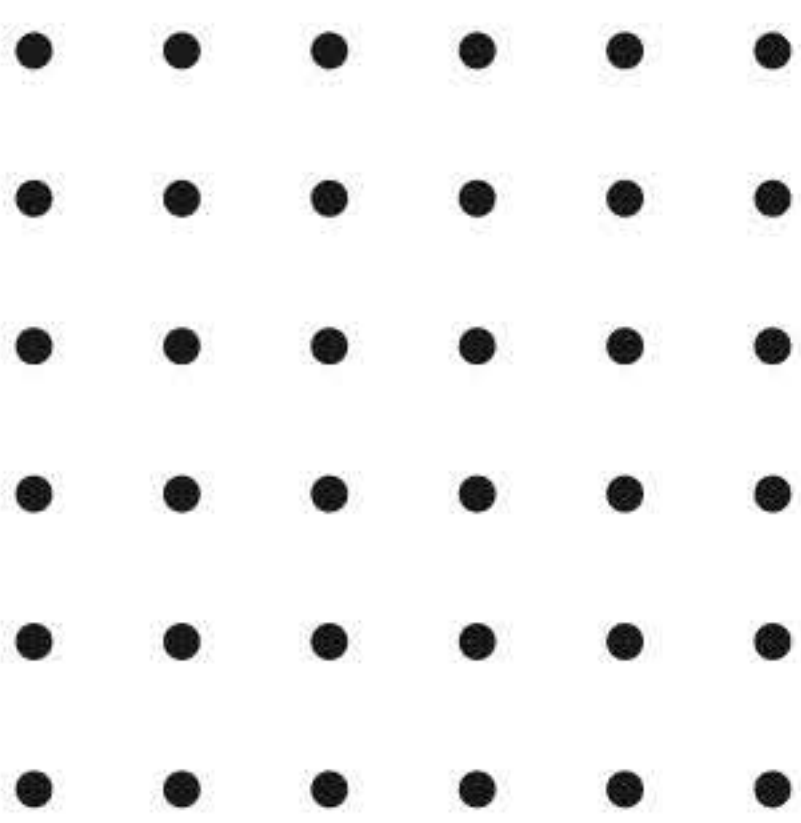
TalentBridge is an AI and Data Science-based candidate screening system designed to automate the recruitment process. The system analyzes resumes, skills, qualifications, experience, and job requirements to identify suitable candidates. Natural language processing techniques can extract relevant information and compare candidate profiles with job descriptions. Machine learning models rank applicants according to their suitability for specific positions. The platform helps recruiters reduce screening time and make efficient data-driven hiring decisions.

MedTrack Pro – Disease Risk Prediction and Patient Analytics

PROJ24020

MedTrack Pro is an AI-based healthcare analytics platform designed to predict potential disease risks from patient information. The system analyzes medical attributes, lifestyle factors, clinical measurements, and historical records to identify risk patterns. Machine learning algorithms are trained to classify patients according to different levels of disease risk. Interactive analytics can provide insights into patient trends and important health indicators. The system supports early risk identification and data-driven healthcare analysis.





CropIntel – AI-Based Agricultural Productivity Analysis

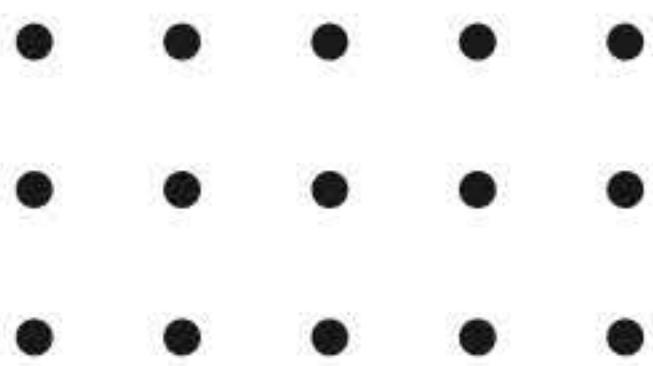
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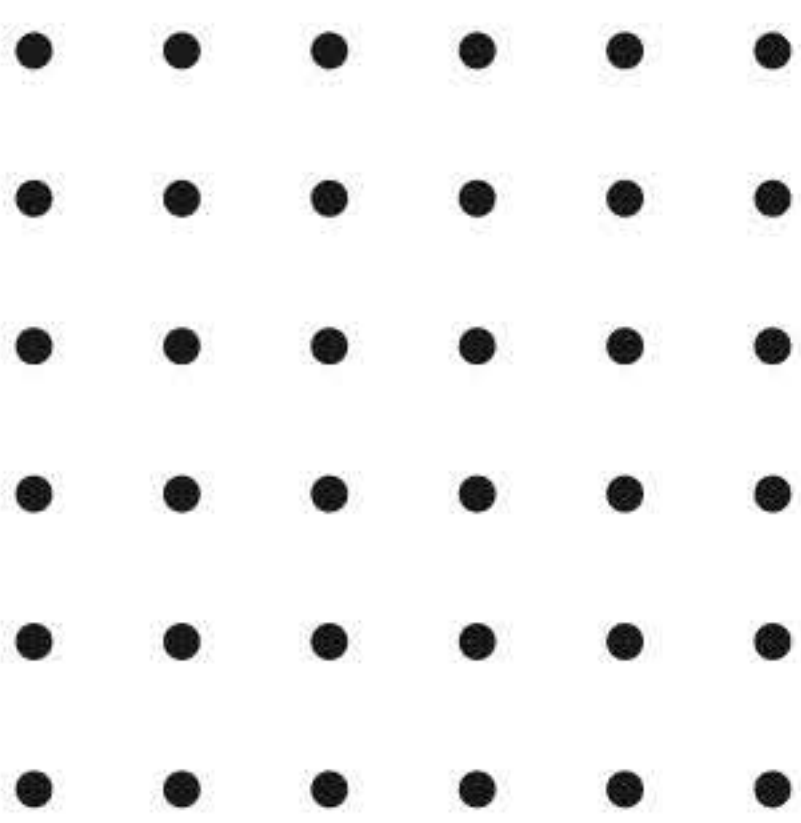
CropIntel is an AI and Data Science platform designed to analyze agricultural productivity and identify factors affecting crop performance. The system processes information such as soil characteristics, weather conditions, crop type, irrigation, and historical yield. Machine learning models identify relationships between agricultural conditions and expected productivity. Farmers can use the generated insights to improve crop planning and resource utilization. The platform supports data-driven agricultural decision-making and productivity improvement.

FraudLens – Digital Payment Fraud Detection Using AI

PROJ24020

FraudLens is an AI-powered fraud detection system designed to identify suspicious digital payment transactions. The system analyzes transaction amount, frequency, location, timing, user behavior, and other transaction characteristics. Machine learning algorithms identify unusual patterns and classify transactions as normal or potentially fraudulent. Risk scores and alerts can be generated for suspicious activities. The platform supports real-time fraud monitoring and improves the security of digital payment systems.





MarketSense – Product Demand
Forecasting Platform

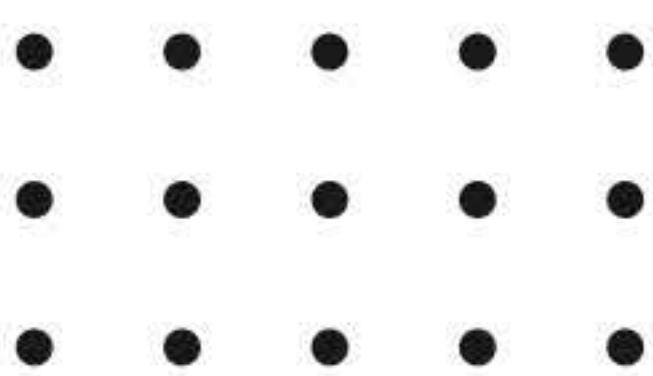
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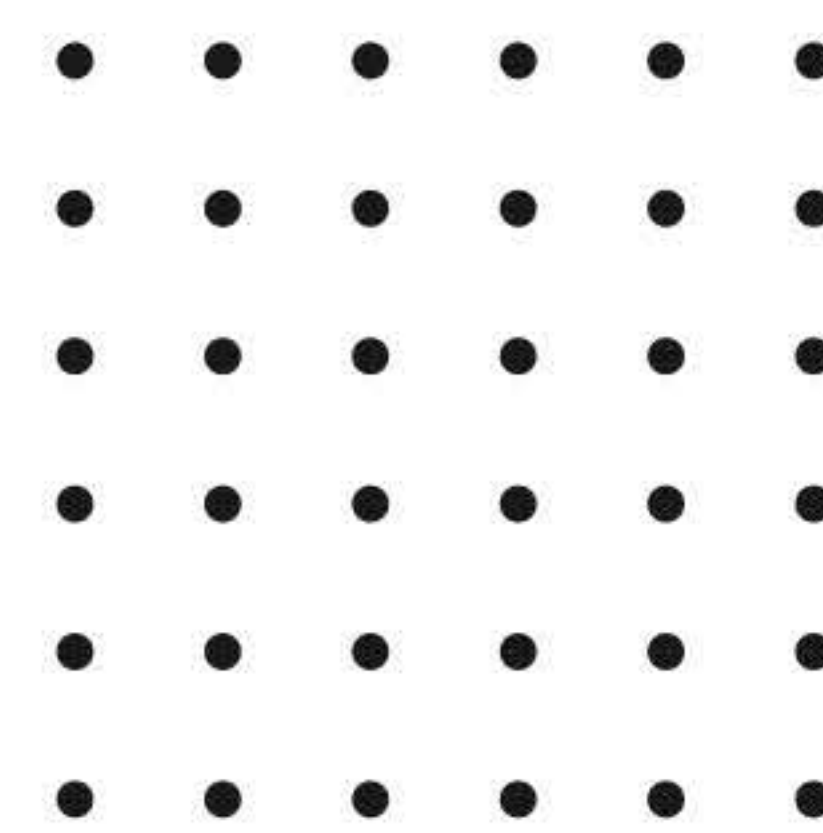
MarketSense is a Data Science-based demand forecasting platform designed to predict future product requirements. Historical sales, seasonal trends, customer demand, pricing, and product information are analyzed to identify purchasing patterns. Machine learning and time-series forecasting techniques generate future demand estimates. Businesses can use these predictions to plan inventory and avoid overstocking or shortages. The system supports efficient product planning and data-driven business decisions.

HealthSync – Personalized Healthcare
Analytics Using Python

PROJ24020

HealthSync is a Python-based healthcare analytics platform that provides personalized insights from patient and health-related data. The system processes clinical records, lifestyle information, medical measurements, and historical health patterns. Data Science techniques are used to identify trends and generate personalized analytical results. Machine learning models can support risk prediction and patient classification tasks. The platform helps healthcare organizations improve data-driven monitoring and decision-making.





LoanMatrix – Credit Approval Prediction System

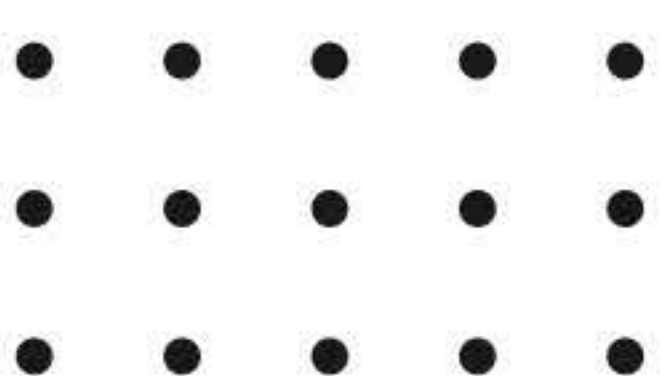
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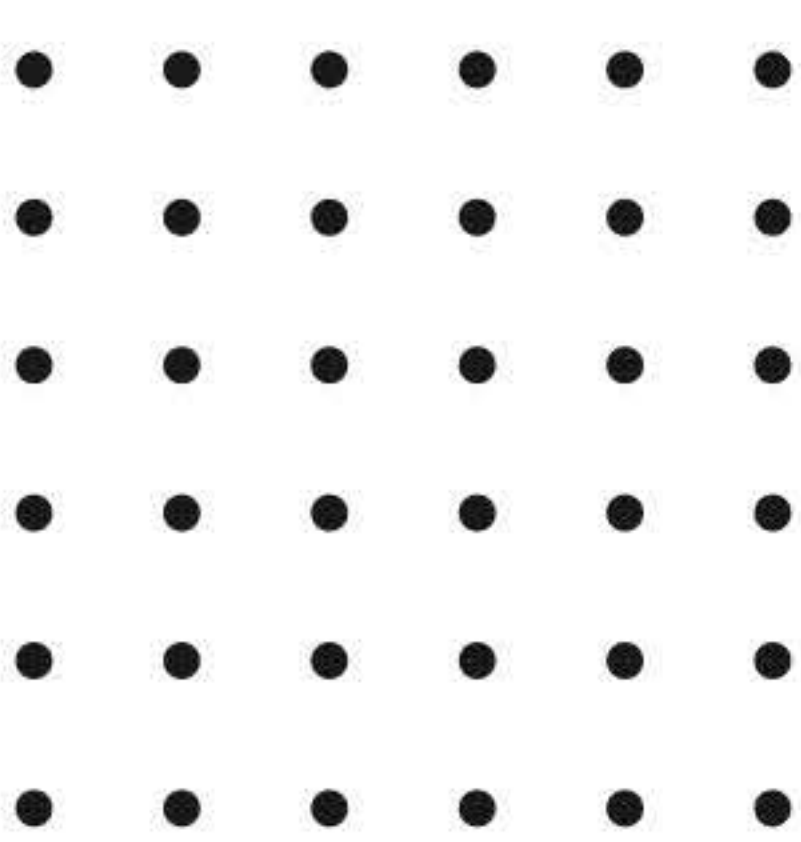
LoanMatrix is an AI-based credit approval prediction system designed to assist financial institutions in evaluating loan applications. The system analyzes applicant information such as income, employment, credit history, loan amount, and repayment-related attributes. Machine learning models predict the likelihood of loan approval or repayment risk. The system can generate a risk score to support consistent evaluation of applications. It helps improve credit assessment efficiency and reduce manual decision-making.

VisionCart – AI-Based Product Recommendation Engine

PROJ24020

VisionCart is an AI-powered recommendation system designed to provide personalized product suggestions to customers. The system analyzes customer preferences, browsing behavior, purchase history, product characteristics, and interaction patterns. Machine learning and recommendation algorithms identify products that are likely to interest individual users. The system can continuously improve recommendations based on new customer interactions. It helps e-commerce platforms enhance customer engagement and improve product discovery.





CareerScope – Skill Gap Analysis and Career Recommendation

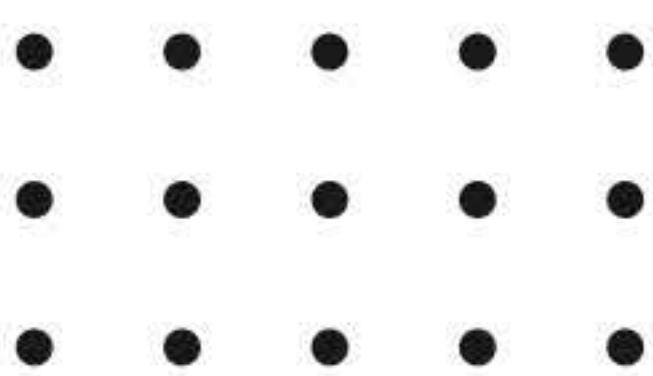
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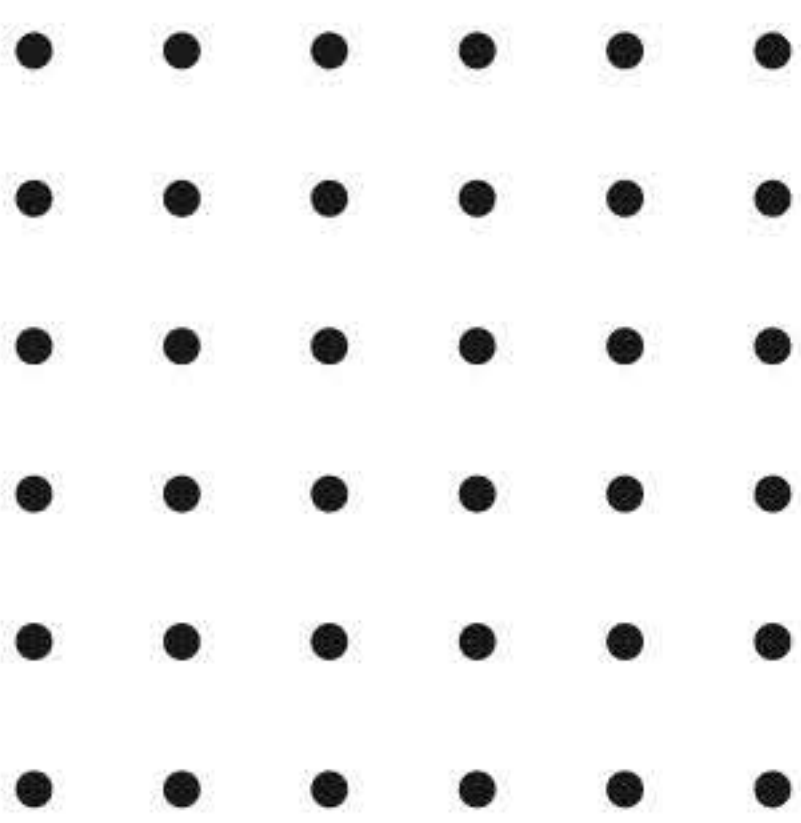
CareerScope is an AI-based career guidance platform designed to identify skill gaps and recommend suitable career paths. The system analyzes a user's education, skills, experience, interests, and target job requirements. Machine learning and natural language processing techniques compare existing skills with industry or job-specific requirements. The system identifies missing skills and recommends relevant learning areas and career options. It supports personalized career planning and skill development.

SecureNet Analytics – Cyber Threat Detection Platform

PROJ24020

SecureNet Analytics is an AI-based cybersecurity platform designed to detect suspicious network activities and potential cyber threats. Network traffic, system events, access patterns, and communication behavior are analyzed to identify abnormal activities. Machine learning models classify network behavior and detect possible attacks or anomalies. The system can generate alerts and analytical reports for security monitoring. It supports proactive cyber threat detection and improved network security management.





UrbanFlow – Smart Traffic Prediction and Analytics

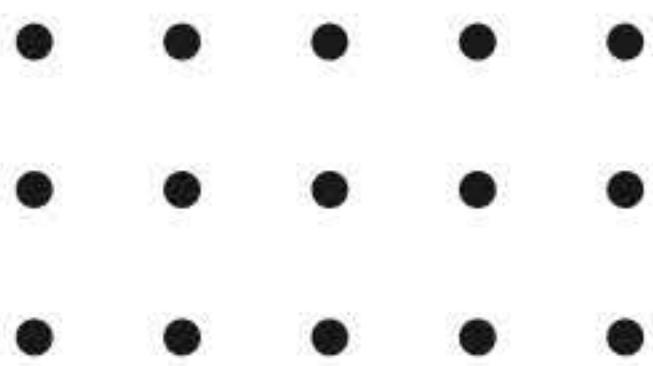
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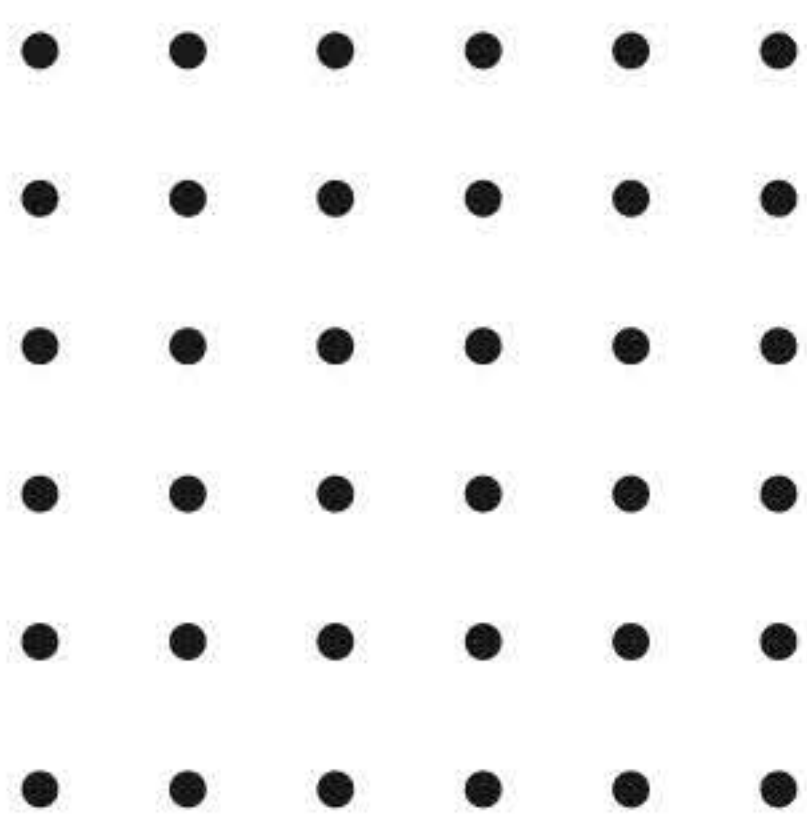
UrbanFlow is an AI and Data Science platform designed to analyze and predict urban traffic conditions. The system processes traffic volume, road occupancy, vehicle movement, time, weather, and historical traffic information. Machine learning models predict traffic congestion and identify patterns across different locations and time periods. Analytical dashboards can visualize traffic trends and predicted congestion levels. The system supports intelligent traffic management and improved urban transportation planning.

PeoplePulse – Employee Attrition Analysis Platform

PROJ24020

PeoplePulse is an AI-based employee analytics platform designed to analyze and predict employee attrition. The system examines factors such as job satisfaction, salary, workload, department, performance, experience, and attendance. Machine learning models identify employees who may have a higher probability of leaving the organization. HR teams can analyze important factors contributing to employee turnover. The platform supports proactive retention strategies and data-driven workforce management.





AgriNext – Crop Disease Classification Using Deep Learning

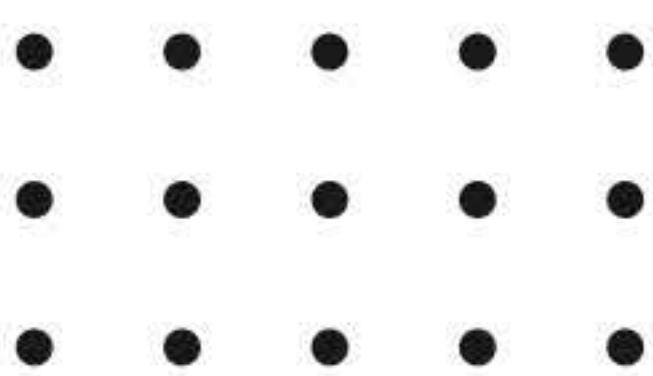
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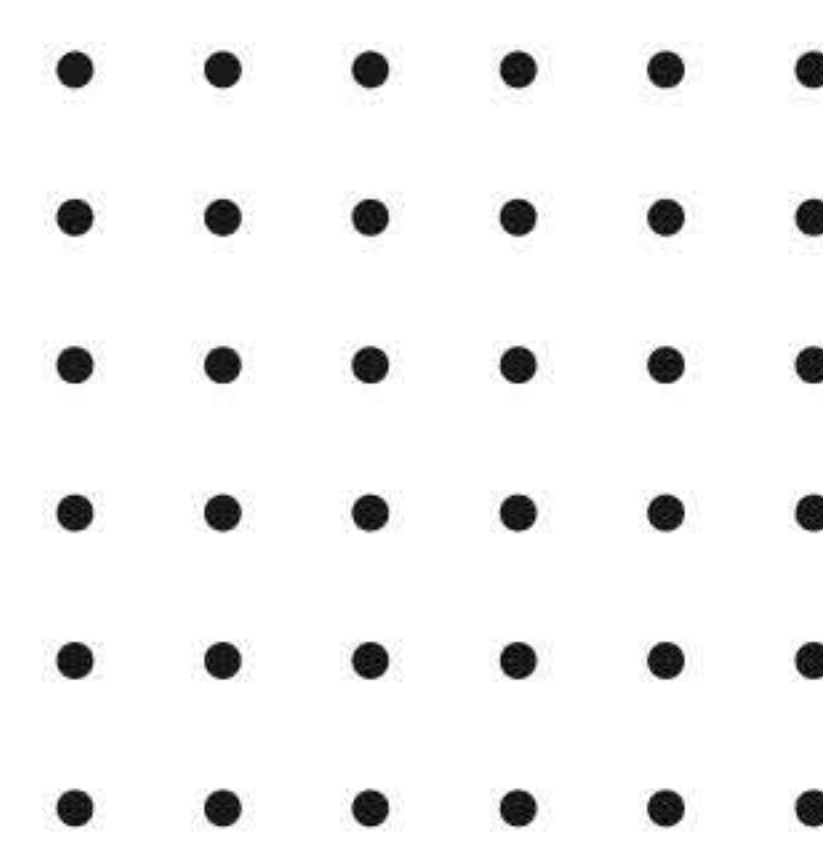
AgriNext is a deep learning-based agricultural system designed to identify crop diseases from plant images. Users can upload leaf or crop images, which are preprocessed before being analyzed by a trained deep learning model. Convolutional neural networks can classify the image into healthy or disease categories. The system provides disease identification results to support early agricultural intervention. It helps farmers monitor crop health and reduce potential productivity losses.

AquaSense – Water Quality Monitoring and Prediction Platform

PROJ24020

AquaSense is an AI-based water quality monitoring platform designed to analyze and predict water conditions. The system processes parameters such as pH, temperature, turbidity, dissolved oxygen, and other water quality measurements. Machine learning models identify water quality patterns and predict possible contamination or quality changes. Results can be presented through analytical dashboards and alerts. The platform supports continuous water monitoring and data-driven environmental management.





StockPilot – Intelligent Market Trend Analysis

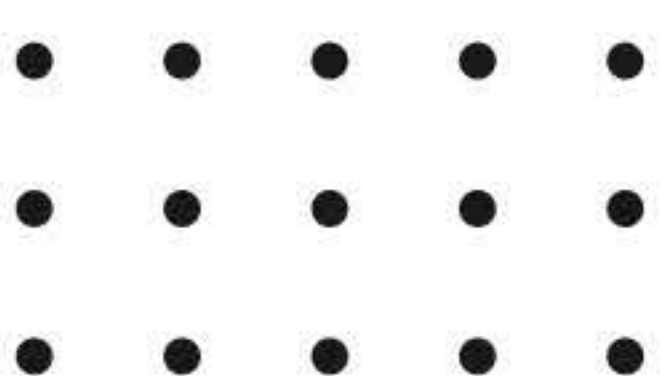
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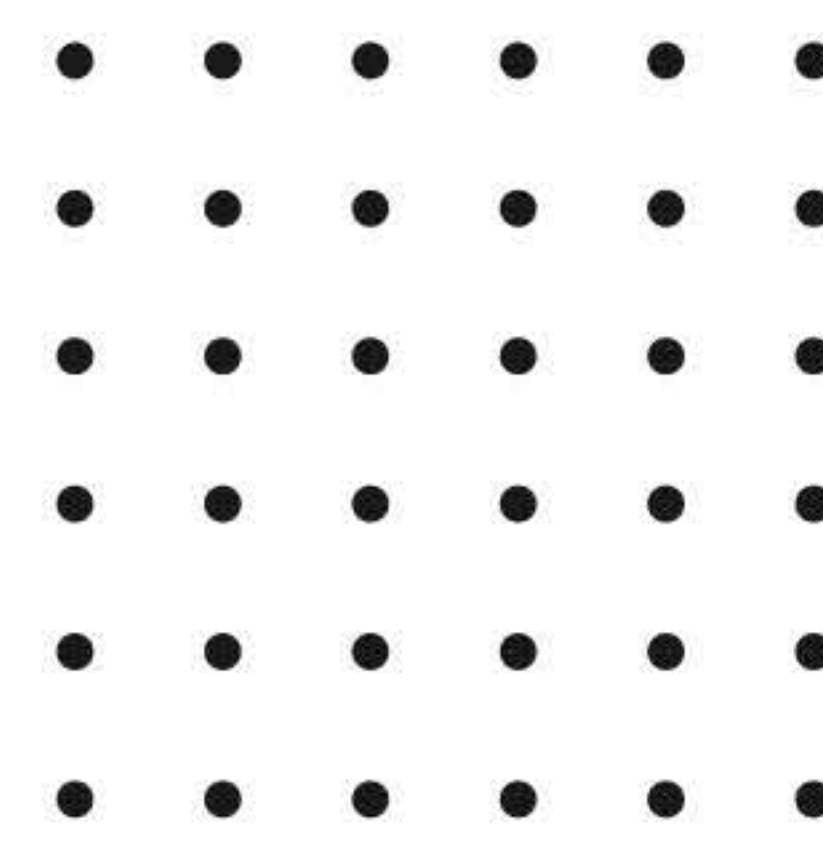
StockPilot is an AI and Data Science platform designed to analyze financial market trends using historical market data. The system processes stock prices, trading volume, technical indicators, and historical patterns to identify market movements. Machine learning and time-series techniques can be used to generate trend predictions and analytical insights. Interactive visualizations help users understand market behavior and changes over time. The platform supports data-driven market analysis and research.

WasteVision – Smart Waste Classification Using Computer Vision

PROJ24020

WasteVision is an AI-powered computer vision system designed to automatically classify different types of waste. Images of waste materials are captured and processed using image preprocessing techniques. Deep learning models classify items into categories such as recyclable, organic, plastic, metal, or other waste types. The classification results can support automated waste segregation and recycling processes. The system promotes efficient waste management and environmentally responsible practices.





FleetSense – Vehicle Maintenance Prediction System

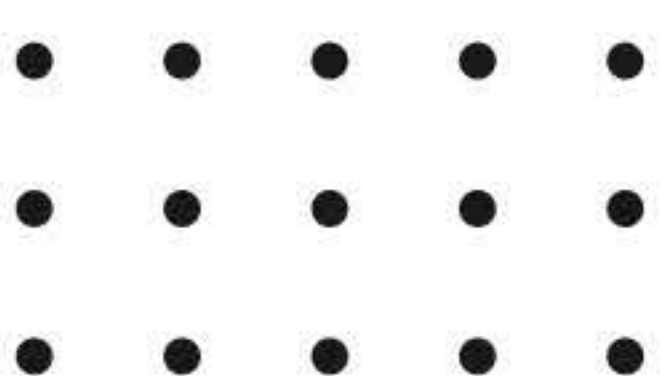
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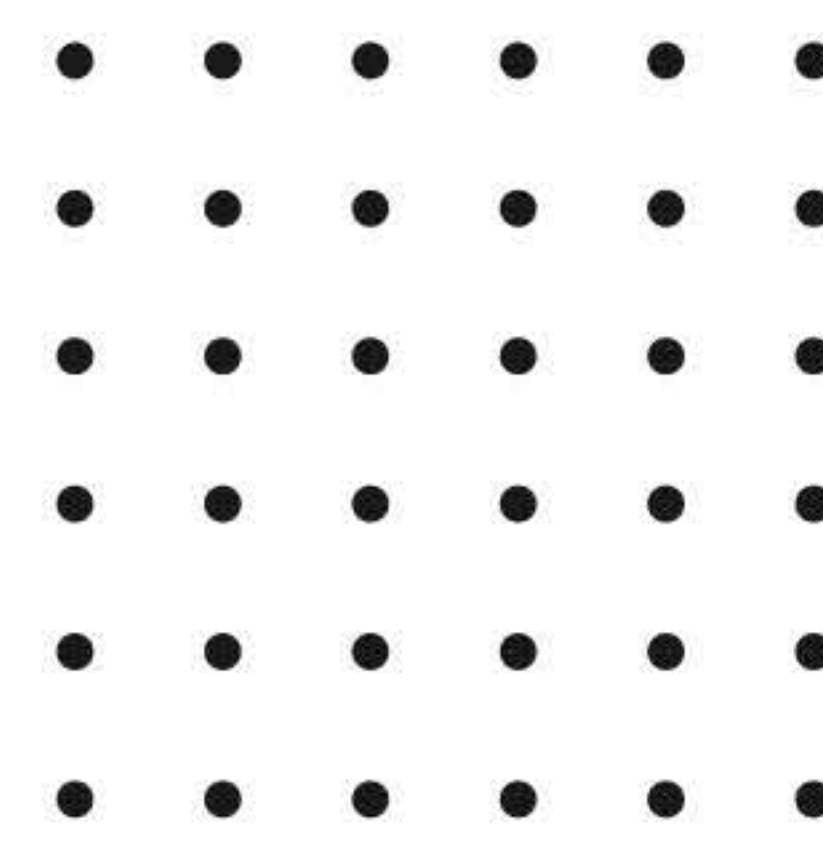
FleetSense is an AI-based predictive maintenance platform designed to monitor vehicle health and anticipate maintenance requirements. Vehicle sensor information, service history, mileage, operating conditions, and fault records are analyzed. Machine learning models identify patterns associated with potential vehicle failures or upcoming maintenance needs. Fleet managers can receive predictive insights before serious problems occur. The system helps reduce unexpected breakdowns, maintenance costs, and vehicle downtime.

ClimateWatch – Weather Forecast Analytics Using Python

PROJ24020

ClimateWatch is a Python-based Data Science platform for analyzing and forecasting weather conditions. Historical weather information such as temperature, humidity, rainfall, wind speed, and atmospheric pressure is processed. Machine learning and time-series forecasting techniques are used to identify patterns and generate future weather predictions. Visualization tools present historical trends and forecast results through charts and dashboards. The system supports weather analysis and data-driven environmental planning.





FoodLens – Food Quality Classification Using Deep Learning

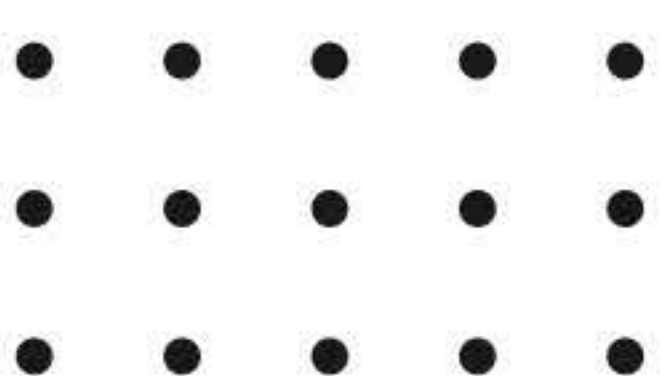
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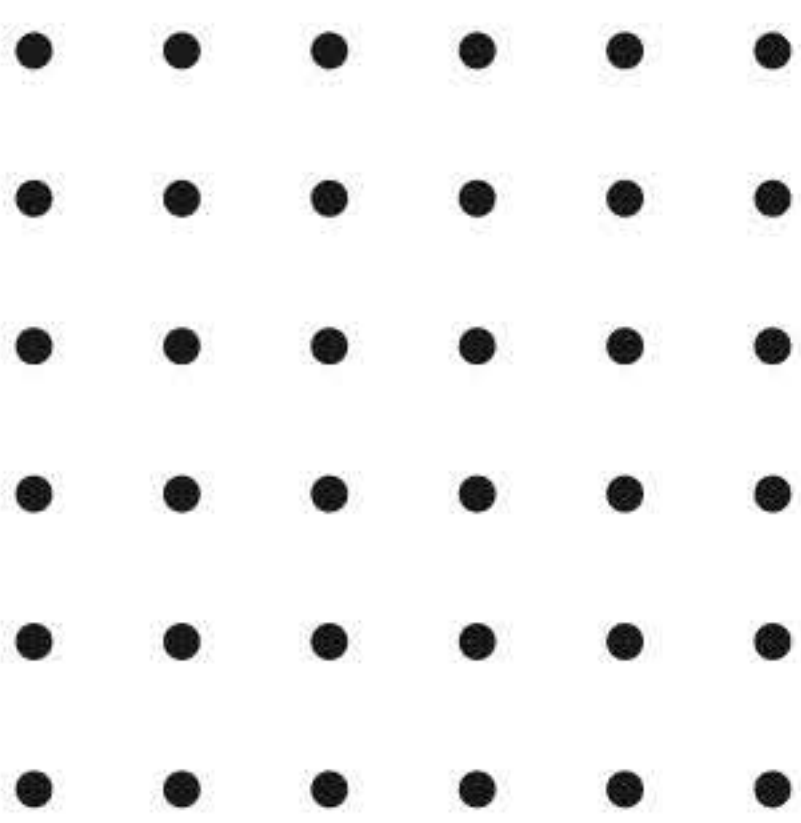
FoodLens is a deep learning-based system designed to classify food quality using images. Food images are collected and preprocessed to identify visual characteristics related to freshness, quality, or defects. Convolutional neural networks learn important image features and classify food into predefined quality categories. The system can provide automated quality assessment with minimal manual inspection. It can support food processing, quality control, and intelligent inspection applications.

SupplySync – Supply Chain Demand Forecasting Using AI

PROJ24020

SupplySync is an AI-based supply chain analytics platform designed to forecast product demand and support inventory planning. The system analyzes historical orders, sales patterns, seasonal variations, lead times, and supply chain information. Machine learning and forecasting models estimate future demand for different products. Businesses can use these predictions to optimize inventory and procurement decisions. The platform improves supply chain efficiency and reduces shortages and excess inventory.





SmartGrid Analytics – Energy Consumption Prediction Platform

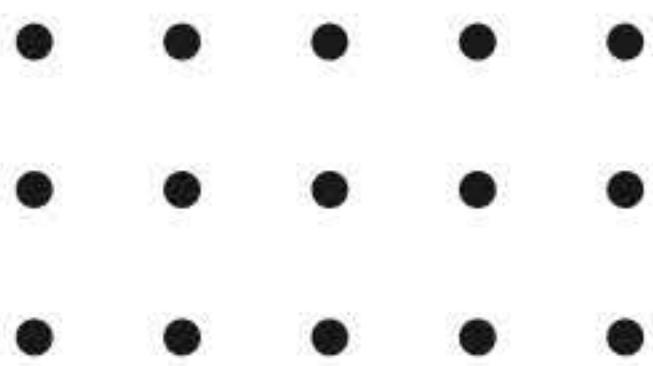
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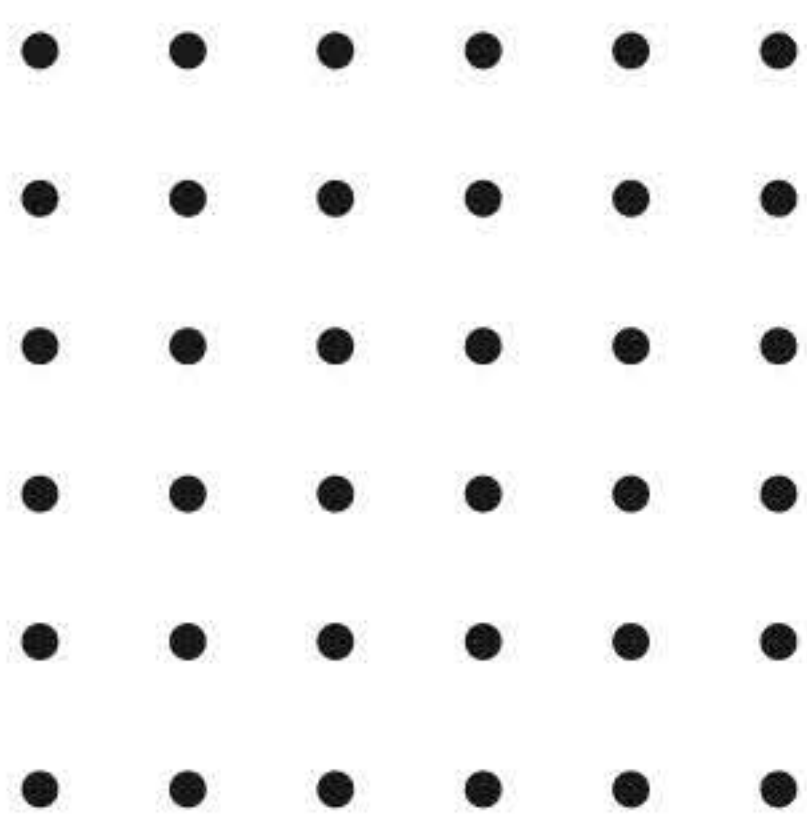
SmartGrid Analytics is an AI-based energy analytics platform designed to predict electricity consumption patterns. The system processes historical energy usage, time, weather, consumer behavior, and other relevant factors. Machine learning models identify consumption trends and generate future energy demand predictions. Visualization dashboards provide insights into peak usage and consumption variations. The system supports efficient energy planning, demand management, and resource optimization.

RetailIQ – Intelligent Inventory Optimization System

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RetailIQ is an AI-based inventory optimization platform designed to help businesses manage product stock efficiently. The system analyzes sales history, product demand, stock levels, seasonal trends, and replenishment information. Machine learning models predict future demand and identify products requiring restocking. Analytical dashboards provide inventory trends and optimization insights to managers. The platform helps reduce stockouts, overstocking, and unnecessary inventory costs.





ClaimSense – Insurance Claim Fraud Detection Platform

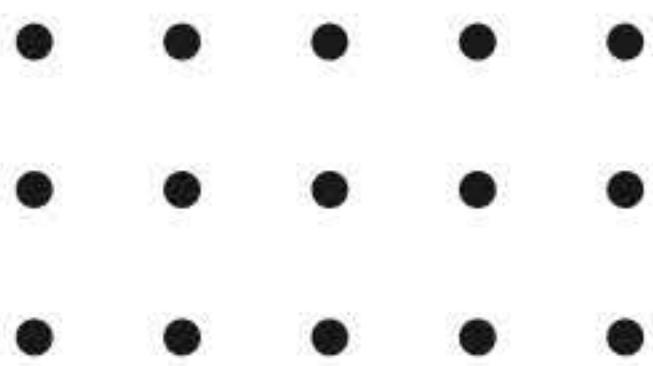
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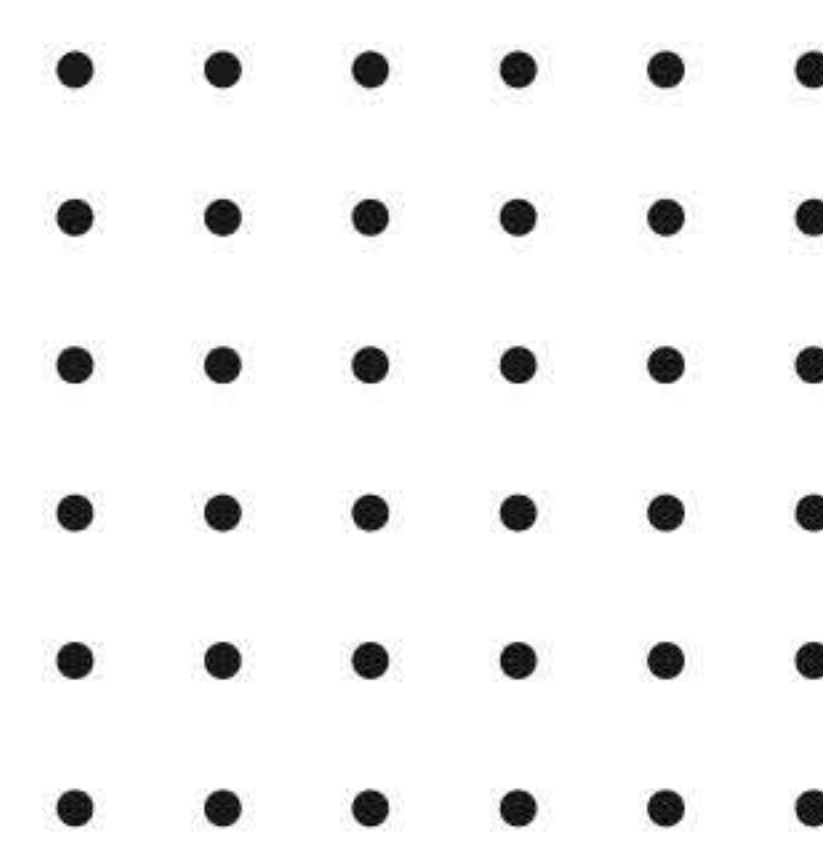
ClaimSense is an AI-based system designed to identify potentially fraudulent insurance claims. The system analyzes claim amounts, customer information, claim history, accident details, and other relevant attributes. Machine learning models identify unusual patterns and assign risk levels to submitted claims. Suspicious claims can be flagged for further manual investigation. The platform improves fraud detection efficiency and helps insurance organizations reduce financial losses.

OceanGuard – Marine Pollution Monitoring Using AI

PROJ24020

OceanGuard is an AI-based environmental monitoring system designed to identify and analyze marine pollution. The system can process satellite images, underwater images, sensor readings, and environmental data to identify pollution indicators. Computer vision and machine learning techniques detect patterns associated with plastic waste, oil spills, or other marine contaminants. Analytical dashboards can display pollution locations and trends. The platform supports marine conservation and data-driven environmental monitoring.





EduPath – Intelligent Course Recommendation System

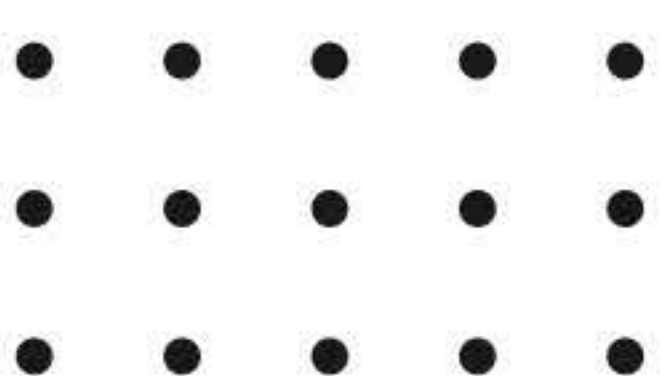
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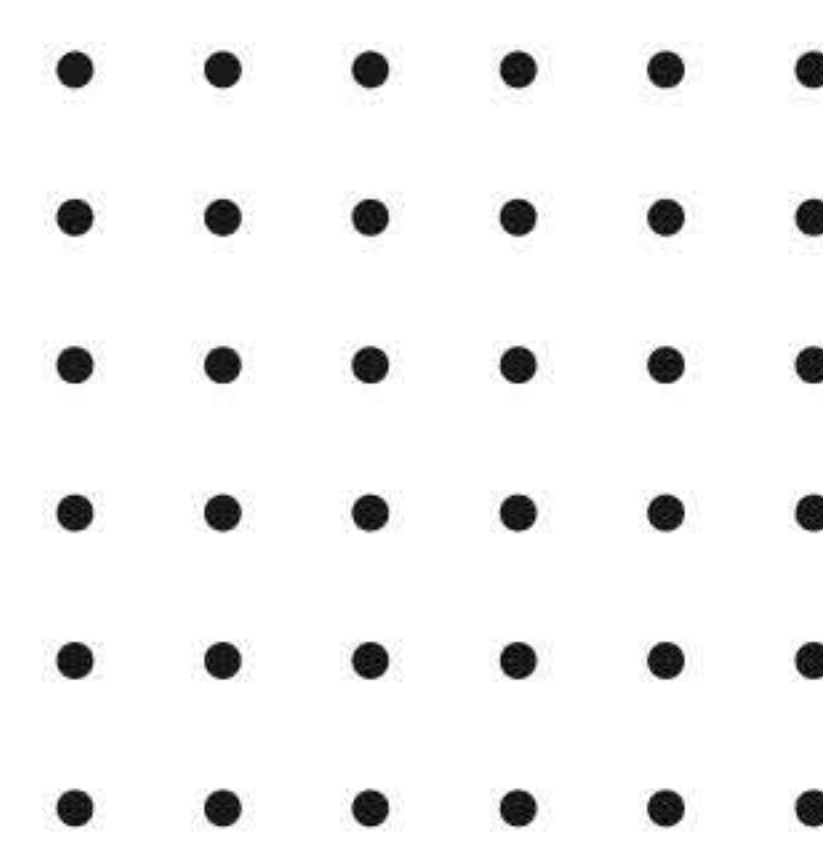
EduPath is an AI-powered educational recommendation system designed to suggest suitable courses for learners. The system analyzes student interests, academic background, skills, learning history, and career goals. Recommendation algorithms identify courses that match individual learner profiles and requirements. The platform can continuously update recommendations based on student interactions and progress. It supports personalized learning and helps students select relevant educational opportunities.

CustomerVista – Consumer Behavior Prediction Platform

PROJ24020

CustomerVista is an AI and Data Science platform designed to analyze and predict consumer behavior. The system processes customer demographics, purchase history, browsing activity, transaction patterns, and engagement information. Machine learning models identify behavioral patterns and predict future purchasing actions. Businesses can use the generated insights to understand customer preferences and improve marketing strategies. The platform supports personalized customer engagement and data-driven business planning.





FinNavigator – Personal Finance Analytics Platform

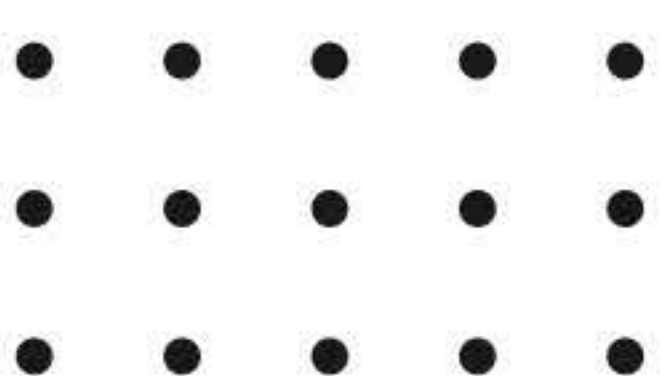
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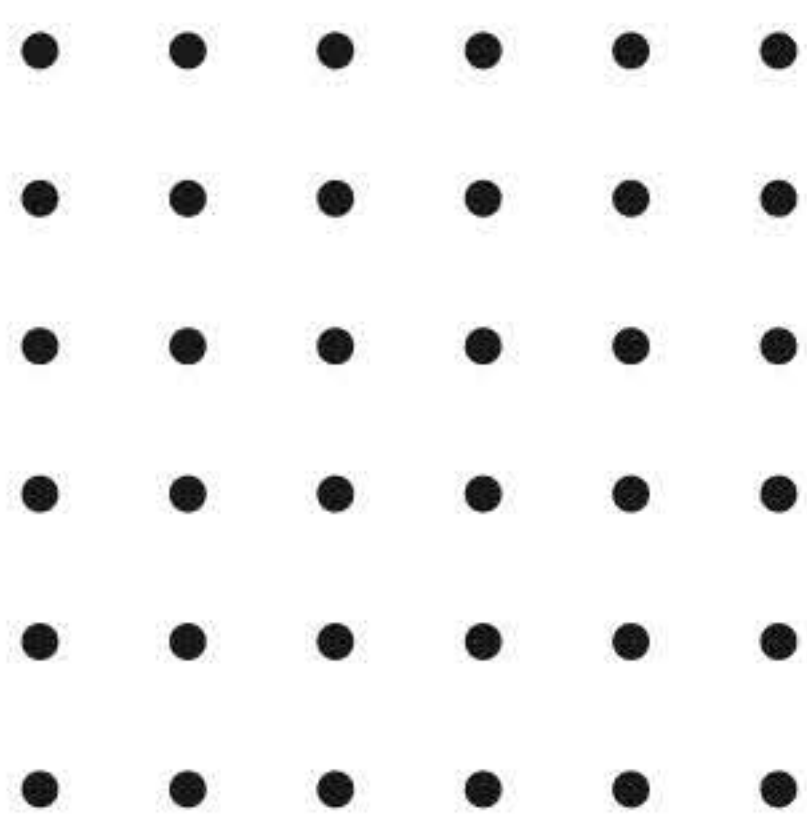
FinNavigator is an AI-based personal finance analytics platform designed to help users understand and manage their financial activities. The system analyzes income, expenses, spending categories, savings, and transaction history. Data Science techniques identify spending patterns and generate personalized financial insights. Machine learning can be used to forecast future expenses and identify unusual spending behavior. The platform supports better budgeting, financial planning, and informed personal financial decisions.

VisionCare – Medical Image Analysis Using Deep Learning

PROJ24020

VisionCare is a deep learning-based medical image analysis platform designed to assist in identifying patterns in medical images. Images such as X-rays, MRI scans, CT images, or other diagnostic images can be processed through image preprocessing techniques. Deep learning models automatically extract important visual features and classify or detect potential abnormalities. Results can be presented through an analytical interface for further review. The system supports computer-assisted medical image analysis and research.





CityPulse – Smart City Resource Analytics Using Machine Learning

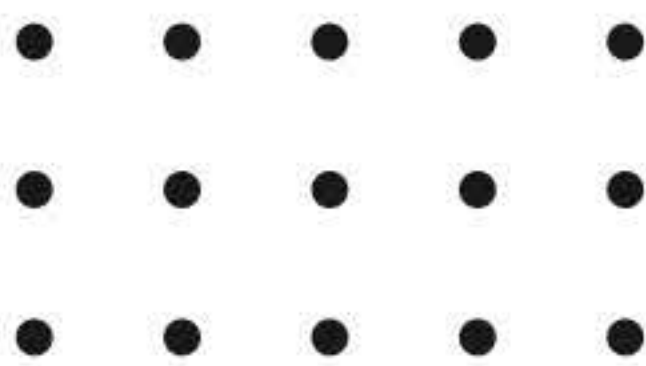
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CityPulse is a machine learning-based smart city analytics platform designed to analyze urban resource utilization. The system processes information related to traffic, energy, water, waste, public facilities, and other city services. Machine learning models identify usage patterns and predict future resource requirements. Interactive dashboards provide city administrators with centralized analytical insights. The platform supports efficient resource allocation and data-driven smart city planning.

ShopMatrix – Customer Segmentation and Recommendation Engine

PROJ24020

ShopMatrix is an AI-based platform that combines customer segmentation with personalized product recommendations. Customer transaction history, purchase frequency, spending behavior, preferences, and interaction data are analyzed using Data Science techniques. Clustering algorithms group customers into meaningful behavioral segments. Recommendation models then suggest relevant products based on individual and segment-level preferences. The system helps businesses improve customer targeting, personalization, and overall sales performance.





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