

Kapil Sharma

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Skills

Python, Machine Learning, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, XGBoost, RandomForest, Decision Tree, Anomaly Detection, Model Explainability (SHAP, LIME), Natural Language Processing (spaCy, Hugging Face), Time Series Analysis, Streamlit, Google Cloud Platform

Projects

PhishPatrol: Developed a phishing website detection system using RandomForest, Decision Tree, and XGBoost classifiers with hyperparameter tuning. Achieved 96% accuracy and evaluated models using ROC AUC, F1 Score, and Precision-Recall Curve.

CareerVista: Designed a career guidance recommendation engine integrating ensemble ML models and XGBoost for job recommendation. Implemented SHAP values for model interpretability and deployed using Streamlit.

AI Study Companion: Created an AI-powered notes summarizer and concept map generator using NLP techniques with spaCy and BERT models. Integrated a user-friendly Streamlit dashboard.

Loan Default Predictor: Built a supervised ML model to predict loan defaults using RandomForest and XGBoost with model explainability via SHAP. Handled imbalanced data using SMOTE.

Certifications

Google Cloud Platform (GCP) Essentials

Machine Learning by Coursera

Education

B.Tech in Computer Science, J.C. Bose University of Science and Technology, 2025