YASH PANDEY

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EDUCATION

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, New Delhi, India **Expected Graduation**:2026

- B.tech in Artificial Intelligence & Data Science*;* 8.96 SGPA (till 5th SEMESTER)

SKILLS SUMMARY

- **Programming Languages**: Python, SQL,
- **Machine Learning & AI**: TensorFlow, PyTorch, Scikit-learn, Deep Learning, NLP
- **Data Analysis & Processing**: NumPy, Pandas, Data Cleaning, Feature Engineering
- **Model Evaluation Techniques**: Cross-validation, ROC Curves, Confusion Matrix
- **Cloud & DevOps**: AWS (S3, EC2, Lambda), Docker, GCP (BigQuery, Cloud Functions)
- **Tools & Platforms**: Git, GitHub, Power BI, Plotly
- **Software Development**: Flask, FastAPI, MongoDB, React.js

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WORK EXPERIENCE

AI/ML Intern

Dategain | March 2025 – Present | Delhi/Remote (Remote)

- Developed an **AI-powered BIO generator and prompt generator** to enhance user engagement on a dating app, leveraging **NLP and deep learning techniques**.
- Implemented **EDA, Data Cleaning, Feature Engineering** on large-scale datasets.
- Designed dashboards using **Power BI** to visualize hiring trends.

PROJECTS

Network Security *(Link)*

Skills used: Python, FastAPI, Docker, AWS CLI, S3, MongoDB

- Designed and implemented a machine learning pipeline for phishing detection, including data ingestion, validation, transformation, model training, and deployment.
- Developed modular components for data preprocessing, feature engineering, and model training with reusable configurations.
- Automated the training pipeline with logging and exception handling to ensure reliability.
- Stored and managed artifacts (final_model.pkl, preprocessor.pkl) and intermediate outputs in an AWS S3 bucket for scalability.
- Built a FastAPI-based backend to serve model predictions, enabling real-time phishing detection.

KisanSeva: Revolutionizing Farming with AI & IoT *(Link)*

Skills used: React Native, Firebase, Python, Machine Learning, Python Libraries

- Built IoT-integrated real-time monitoring system, reducing manual oversight by 100% and optimizing irrigation schedules.
- Deployed a Random Forest model for NPK fertilizer prediction, achieving $R^2 = 0.93$
- Streamlined sensor data collection and alerting, enhancing crop health and operational efficiency.

Quant(Trading Project) *(Link)*

Skills used: Python,Python libraries, XGBoost, Logistic Regression

- Developed a machine learning model to predict short-term price movements (>0.5% in 5 minutes) with **81.33% accuracy**, optimizing a feature set of **20+ technical indicators** (RSI, MACD, Bollinger Bands) and interaction features.
- Implemented an **ensemble model (XGBoost + Logistic Regression)** with **Bayesian optimization**, adjusting thresholds (0.4–0.65) and weights (0.5 XGBoost + 0.5 LR)
- Fine-tuned hyperparameters (e.g., **scale_pos_weight 4.0–4.5**) and iteratively improved model performance, aligning predictions with real-world trading goals.

ACHIEVEMENTS AND CERTIFICATIONS

• **ISRO Bhartiya Antariksh Hackathon – 2024 | View LinkedIn Post with photos of the certificate and award** Secured Top 12 nationwide among 3,500+ teams and 34,000 students.

• **Smart India Hackathon 2024: SMART INDIA HACKATHON 2024 FINALIST | *CERTIFICATE***