KUNAL PATHAK

Data Analyst
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PROFESSIONAL SUMMARY

Data Science undergraduate with proven expertise in building ML pipelines, fraud detection systems, and analytics dashboards. Demonstrated ability to reduce operational costs by 20% through automated workflows and improve forecasting accuracy by 30%. Skilled in Python, SQL, machine learning, and data visualization with hands-on experience deploying production-ready solutions. Published IEEE researcher and Smart India Hackathon qualifier.

EDUCATION

Lokmanya Tilak College of Engineering Navi Mumbai, India
Bachelor of Technology in Computer Science (Data Science Specialization) *Nov 2022 – Present*

- Relevant Coursework: Machine Learning, Statistical Analysis, Data Structures, Algorithms, Database Systems

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, MySQL, R
- **Data Science & ML:** Pandas, NumPy, Scikit-learn, SciPy, TensorFlow, Predictive Modeling, Statistical Analysis
- **Data Engineering:** ETL Pipelines, Data Cleaning, Feature Engineering, EDA, Data Preprocessing
- **Visualization & BI:** Power BI, Matplotlib, Seaborn, Streamlit, Excel Dashboards, Interactive Reporting
- **Tools & Technologies:** Git, Jupyter, VS Code, Microsoft Power Platform, Financial Regulation Compliance

TECHNICAL PROJECTS

Fraud Detection System *Python, Scikit-Learn, Pandas, NumPy, Matplotlib*

- Engineered end-to-end ML pipeline for real-time fraud detection achieving 95% precision on imbalanced datasets
- Reduced manual transaction review time by 20% through automated anomaly detection and risk scoring algorithms
- Implemented feature engineering techniques and ensemble models to minimize false positives and financial losses
- Deployed production-ready system enhancing financial risk management and regulatory compliance workflows

Retail Sales Analytics Platform *Python, Pandas, NumPy, Matplotlib, Seaborn, ETL*

- Built comprehensive analytics pipeline processing 100K+ transactions to identify revenue trends and customer patterns
- Improved sales forecasting accuracy by 30% using time series analysis and predictive modeling techniques
- Automated reporting workflows reducing business intelligence generation time by 40% for stakeholder presentations
- Created interactive dashboards visualizing regional performance, product profitability, and inventory optimization metrics

Invalid Traffic Analysis System *Python, Pandas, Streamlit, Time Series Analysis*

- Developed real-time IVT detection system improving fraudulent traffic identification accuracy by 25%
- Engineered analytical features using correlation analysis and distribution modeling to flag abnormal engagement patterns
- Built dynamic Streamlit dashboard enabling fraud prevention teams to upload datasets and visualize threats instantly
- Documented comprehensive EDA methodology and feature engineering approach for future ML model development

LEADERSHIP & RESEARCH

Research Author – IEEE Conference *2024*

- Authored and published research paper on advanced data analysis techniques in peer-reviewed IEEE publication

Team Lead – Smart India Hackathon (College Level Qualifier) *2023*

- Led cross-functional team in developing ML-based solution, qualifying for national-level competition
- Coordinated technical strategy, model development, and presentation delivery under tight deadlines

CERTIFICATIONS

- Microsoft Discover Data Analyst — Microsoft Introduction to Generative AI — Microsoft Responsible AI
- Microsoft Get Started Building with Power BI