ABHISHEK KUMAR

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PROFESSIONAL SUMMARY

Data Analyst (B.Tech AI & ML, 2026) with hands-on experience in data analysis, data validation, KPI dashboards and business intelligence reporting on large operational datasets for Uber's ride-sharing and delivery verticals. Skilled in SQL, Python (Pandas), Excel, Power BI and Tableau, with a strong focus on data quality, exploratory data analysis (EDA) and actionable insights. Additional experience in building ETL/data pipelines, machine learning models and Python (FastAPI) services.

TECHNICAL SKILLS

Data Analysis: EDA, Data Cleaning, Data Validation, Data Quality Audit, KPI Reporting, Statistical Analysis, Business Intelligence
BI & Visualization: Power BI, Tableau, Microsoft Excel (Pivot Tables, Formulas), Seaborn, Matplotlib
Programming & Databases: Python (Pandas, NumPy), SQL, MongoDB, ETL Workflows, Data Pipelines, REST APIs
Data Science / ML: Scikit-learn, Predictive Modeling, Classification, Hyperparameter Tuning, Class-Imbalance Handling (SMOTE)
Python Development: FastAPI, Flask, Streamlit, Docker, Git, GitHub

PROFESSIONAL EXPERIENCE

Junior Data Analyst | eClerx (Client: Uber) Hybrid **May 2026 – Sep 2026**

- Analyzed and logged structured operational data for Uber's mobility and grocery delivery verticals into the Mobility Utility Tool (MUT), supporting real-time business reporting.
- Audited and validated large datasets for accuracy and completeness against defined quality standards, ensuring data integrity across reporting workflows.
- Identified and flagged data discrepancies during real-time capture, improving reporting reliability across ride-sharing and delivery segments.

AI/ML Engineer Intern | Senpai Host Hybrid **May 2025 – Nov 2025**

- Built and deployed data pipelines for computer vision and NLP tasks, from data preprocessing to production deployment via FastAPI.
- Analyzed model performance data to achieve 95%+ detection precision in a real-time AI proctoring system.
- Developed a data-driven behaviour analysis pipeline for automated anomaly detection, monitoring and reporting on production model performance.

AI/ML Intern | ThinkNEXT Technologies Mohali, Punjab **May 2024 – Jul 2024**

- Performed EDA on sales datasets and built interactive KPI dashboards using Python, Pandas and Seaborn to surface sales trends for business decisions.

PROJECTS

Olympic Data Analyzer – EDA Dashboard | Python, Pandas, Seaborn, Streamlit, Docker GitHub

- Analyzed 120 years of Olympic history (Athens 1896 to Rio 2016): medal tallies, country-wise and sport-wise performance, and growth of women's participation.
- Built a modular preprocessing/helper pipeline and an interactive Streamlit dashboard; containerized with Docker.

Customer Churn Prediction – ML Classification | Python, Pandas, Scikit-learn, SMOTEENN GitHub

- Performed EDA on ~7,000 telecom customer records to find churn drivers; compared Decision Tree and Random Forest, reaching ~80% accuracy on a held-out test set.
- Addressed class imbalance with SMOTEENN, evaluated precision/recall/F1 with confusion matrices, and serialized the final model for a prediction app.

AI-Driven Adaptive Diagnostic Engine | Python, FastAPI, MongoDB (Motor), Claude API GitHub

- Built an async REST API that adapts question difficulty using a 1-parameter IRT (Rasch) model, updating each student's ability score after every answer.
- Implemented max-information question selection over a 20-question bank (5 topics) and LLM-generated personalised 3-step study plans on test completion.

EDUCATION

B.Tech – Artificial Intelligence & Machine Learning | CGC Landran, IKG Punjab Technical University, Punjab **2022 – 2026**

CERTIFICATIONS & ACHIEVEMENTS

- **Certifications:** IBM Data Analysis – IBM (2026) | Data Mining for Decision Making – IIT Mandi, NPTEL (2026) | Python for Data Science – IIT Madras, NPTEL (2024) | AWS Cloud Operations – AWS (2024)
- **Achievements:** 2x First Place – Ideathon, CGC Landran | Grand Finalist – Smart India Hackathon (SIH)