Ravi Kumar

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Professional Summary

Results-driven Data with hands-on experience in end-to-end data analytics, statistical modeling, and business intelligence. Proven track record of transforming complex datasets into actionable insights using Python, SQL, and advanced visualization tools. Expertise in machine learning pipelines, predictive modeling, and data-driven decision support systems with strong focus on delivering measurable business impact.

Technical Skills

- **Programming Languages:** Python, SQL, C++, JavaScript, HTML, CSS
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Power BI, Excel (Pivot Tables, VLOOKUP, Advanced Formulas)
- **Machine Learning & AI:** Scikit-learn, Regression Analysis, Classification Algorithms, Clustering, Model Evaluation, Hyperparameter Tuning
- **Deep Learning:** TensorFlow, Keras, Neural Networks, RNN, LSTM, Time Series Forecasting
- **Database Management:** MySQL, PostgreSQL, SQL Query Optimization, Data Modeling, ETL Processes
- **Tools & Frameworks:** Git, GitHub, Jupyter Notebook, VS Code, FastAPI, Streamlit, FAISS
- **Data Science Techniques:** Exploratory Data Analysis (EDA), Feature Engineering, Statistical Analysis, Data Cleaning, A/B Testing

Key Projects & Achievements

- **Stock Decision Assistance System – ML-Based Trading Analytics Platform** *Python, ML, Time Series*
  Engineered an end-to-end machine learning system analyzing 5+ years of historical stock data with 15+ technical indicators to generate data-driven trading signals for swing and short-term strategies.
  Implemented ensemble ML models (Random Forest, XGBoost, LSTM) achieving 72% prediction accuracy with comprehensive backtesting framework evaluating risk-adjusted returns and portfolio performance metrics.

- **AstroBot – AI-Powered Knowledge Retrieval System** *NLP, RAG, LLMs, Web Development*
  Developed production-ready AI chatbot application leveraging ISRO MOSDAC datasets with 10,000+ data points, implementing Retrieval Augmented Generation (RAG) architecture using FAISS vector database for semantic search.
  Integrated voice recognition, session management, and automated PDF report generation, reducing information retrieval time by 80% while maintaining 95% response accuracy.

- **Google Play Store Analytics – Comprehensive EDA & Predictive Modeling** *Python, SQL, Data Mining*
  Conducted in-depth analysis of 10,000+ app records, performing data cleaning (handling 15% missing values), feature engineering (creating 8 new metrics), and statistical hypothesis testing to identify key drivers of app success.
  Built predictive models achieving 85% accuracy in forecasting app ratings, uncovering actionable insights including 40% correlation between app size optimization and install rates.

- **D2C E-commerce Business Strategy & Web Platform** *Market Research, Business Analytics, Web Dev*
  Led cross-functional team to develop comprehensive go-to-market strategy for ethnic wear brand, conducting competitive analysis of 20+ competitors and market sizing across 3 demographic segments.
  Designed and deployed functional e-commerce prototype with user analytics integration, projecting 25% conversion rate improvement based on data-driven UX optimizations.

- **Spaceship Titanic – Kaggle Classification Challenge** *Machine Learning, Feature Engineering*
  Achieved top 30% ranking through advanced feature engineering (creating 12 interaction features) and ensemble modeling techniques (Stacking, Voting Classifiers).
  Optimized model performance using Grid Search CV and cross-validation, improving baseline accuracy from 72% to 81%.

Education

Bachelor of Science (Honors) – Data Science and Artificial Intelligence *IIT Guwahati*
Pursuing — Expected Graduation: 2027
Relevant Coursework: Data Structures & Algorithms, Probability & Statistics, Machine Learning, Deep Learning, Database Management Systems, Applied Linear Algebra, Data Mining

Professional Certifications

- **Advanced SQL** – Kaggle Learn (2025)
  Skills: Complex Joins, Window Functions, CTEs, Query Optimization, Subqueries

- **Innovation Hackathon Winner** – Physics Wallah (2024)
  Skills: Business Problem Solving, Data-Driven Decision Making, Full-Stack Development