Aviansh Kumar

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PROFESSIONAL SUMMARY

Motivated and adaptable professional transitioning into Data Science, currently pursuing a B.Sc. in Data Science & Programming at IIT Madras after completing two diplomas in Programming and Data Science. Skilled in Python, SQL, machine learning, and data visualization, with hands-on project experience in predictive analytics and full-stack application development.

EDUCATION

Indian Institute of Technology, Madras │ Chennai, India
B.Sc. in Data Science & Programming – Ongoing (Expected Completion: April 2026)
Diploma in Data Science – Completed August 2025
Diploma in Programming – Completed August 2025
12th Science (Intermediate) – [P. N. Anglo Sanskrit High School]

TECHNICAL SKILLS

Programming: Python, SQL, HTML, CSS, JavaScript, Java
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, XGBoost, Flask, Jinja2, Bootstrap, VueJS, Statsmodels, Celery, Redis
Tools & Platforms: MS Excel, Google Sheets, Power BI, Tableau, Google Colab, Git/GitHub, Kaggle, PostgreSQL, SQLite, DB Browser for SQLite, Postman
Analytics: Machine Learning, Data Visualization, Time Series Forecasting, Statistical Analysis, Hypothesis Testing

PROJECTS

Sundarayatan Store: Strategic Analysis for Business Enhancement
- Collected and cleaned two months of sales and customer data using Python (pandas) and SQL to support business analysis.
- Applied ABC analysis to segment inventory, identifying a small group of products that generated over 75% of total revenue.
- Utilized ARIMA-based time series forecasting in Python (Statsmodels) to predict demand, preventing stockouts and optimizing inventory levels.
- Conducted RFM analysis in Python to identify "at-risk" customer segments and proposed targeted loyalty campaigns.

Engage2Value: From Clicks to Conversions (Kaggle Competition)
- Developed a machine learning model in Python (scikit-learn, XGBoost) to predict customer purchase value from multi-session digital behavior.
- Performed comprehensive exploratory data analysis (EDA) using pandas, NumPy and Matplotlib to uncover user behavior patterns.
- Implemented and compared multiple classification models, demonstrating a solid understanding of model selection and evaluation metrics.

Vehicle Parking App
- Built a full-stack multi-user application using Flask (Python) and VueJS to manage and reserve parking spots with admin/user roles.
- Integrated Redis cache and scheduled Celery tasks to automate reminders and generate monthly user reports, improving system efficiency.

Quiz Master
- Created a multi-user exam preparation web app using Flask (Python), SQLite, HTML, CSS and Bootstrap.
- Enabled admins to manage subjects, chapters, and quiz content while users could register, take quizzes, and track performance.

Additional Activities

- Leveraged 4+ years of teaching experience to mentor students in Mathematics and Python, including B.Tech aspirants and college peers.
- Strategic thinker with a passion for chess; regularly participate in online matches and problem-solving exercises.