Dipshikha

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SUMMARY

Second-year Data Science student at IIT Madras with strong skills in Python, SQL, and Machine Learning. Experienced in EDA, feature engineering, model evaluation, and deployment using Docker, GitHub, and cloud platforms. Familiar with TensorFlow, PyTorch. Passionate about building scalable ML pipelines and applying data-driven methods to research and real-world problem-solving.

EDUCATION

Indian Institute of Technology, Madras Chennai, India
B.S. in Programming & Data Science 2023 – 2027
CGPA: 6.0/10

PROJECTS

Business Data Management Capstone Feb 2025 – May 2025
Excel, Power BI — Retail Jewellery

- Analyzed monthly sales & SKU-level data for 500+ products, identifying 68% post-festival drop and recovery trends.
- Built dashboards to monitor KPIs and visualize revenue trends.
- Recommended pricing & inventory strategies, improving profit by 25%.

E-commerce Purchase Value Prediction (Kaggle Engage-2) May 2025 – Jul 2025
Python, Scikit-learn, XGBoost, LightGBM

- Designed regression pipeline on 2.5M+ clickstream records with preprocessing & feature engineering.
- Built ensemble models (RF, XGBoost, LightGBM), improving accuracy by 15% over baseline.
- Achieved R2 $\approx$ 0.88; secured Top-50 leaderboard rank.
- Implemented ML pipeline with automated preprocessing, API-ready models, and Docker deployment.

LLM-based Automation Agent (Mini Project) Feb 2025
Python, OpenAI API, AWS (S3, EC2)

- Built a lightweight ML agent integrating LLMs for task automation and CI pipeline integration.
- Experimented with AWS services for deployment, showcasing real-world ML workflows.

TECHNICAL SKILLS

- **Languages:** Python, SQL
- **Libraries/Frameworks:** Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, TensorFlow, PyTorch
- **ML/AI:** Regression, Classification, Predictive Modeling
- **Tools/Platforms:** Power BI, Excel, Git, Docker, Azure (basics)
- **Other:** Data Cleaning, EDA, Visualization, Deployment& Optimization of ML Workflows

CERTIFICATIONS

Intro to Machine Learning (Duke University)
AWS Data Analytics
Excel Dashboards

ACHIEVEMENTS

Certified in Cloud Analytics (AWS)
Deployed ML models with Docker & GitHub
Top-50 Rank in Kaggle Engage-2 Competition

SOFT SKILLS

Leadership   Communication   Project Management   Problem Solving
Analytical Thinking   Team Collaboration