Arka Dash

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Professional Summary

Dual-degree student pursuing BSc in Data Science at IIT Madras and B.Tech in Computer Science at KGEC. Technical team leader with experience organizing workshops and mentoring 200+ students. Completed 20+ projects in machine learning and software development, with active open-source contributions. Led teams to hackathon victories while maintaining strong academic performance at both colleges.

Education

Indian Institute of Technology Madras (IITM)

BSc in Data Science & Programming   2023–Present

Core Competencies: Machine Learning (PyTorch, TensorFlow), Statistical Modeling, Data Structures & Algorithms

CGPA: 9.0

Kalyani Government Engineering College (KGEC)

B.Tech in Computer Science and Engineering   2023–2027

CGPA: 8.4

Technical Experience

IITM BS Degree Technical Society

Technical Secretary   Mar 2025–Present

- Organized technical workshops on Git/GitHub with speakers from IBM, Google DeepMind, Zoho and IIT KGP
- Mentored 200+ members in their data science journey through structured learning paths and resources
- Led community initiatives fostering peer learning and collaborative projects in data science

Key Projects

Customer Segmentation Analytics

- Engineered customer segmentation system using K-means and DBSCAN clustering
- Achieved 88% accuracy in response prediction using Random Forest and Gradient Boosting
- Developed interactive Streamlit dashboard for real-time segment analysis and visualization
- [GitHub]

AWS Data Pipeline System

- Built serverless CSV ingestion pipeline using AWS S3, Lambda, and ChromaDB
- Implemented LocalStack for AWS service emulation with Docker containerization
- Automated metadata extraction and storage for files up to 10MB with 99% reliability
- [GitHub]

Technical Skills

Languages:	Python, TypeScript, JavaScript, SQL, Go
Frameworks:	PyTorch, React, Flask, Express.js, TensorFlow
Tools:	Docker, GitHub Actions, ESLint, Jupyter, OpenCV, NLTK
Concepts:	CI/CD, REST APIs, Web3, Data Structures, NLP

Achievements & Affiliations

Achievements

- Winner of Code Relay 3.0 Hackathon organized by IIT Bhubaneswar
- Quickdraw Award for rapid issue resolution (avg. 2.1h response time)
- LeetCode 1500+ rating (Top 15% globally among 100,000+ users)

Affiliations & Interests

- **InfinAI-ML**: Deputy Head Active member in Core ML Research Group
- **Suav Technologies**: Core team member for ML-based and Agent-based modeling