Aniket Mishra

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Education

Eindhoven University of Technology (TU/e) Sep 2024 – Present
MSc, Data Science and Artificial Intelligence *Eindhoven, NL*
Major Tracks: Data Mining and Machine Learning; Data Engineering and Management
Minor Track: Process Mining and Visual Analytics

SRM Institute of Science and Technology June 2016 – Sep 2020
B.Tech, Computer Science and Engineering *Chennai, IN*
First Class with Distinction
Thesis: Image Super-Resolution using Feedback Loops in GANs

Experience

Avathon (formerly SparkCognition) Mar 2021 – Jul 2025
Data Scientist / Data Engineer *Bengaluru, IN*
- Designed and scaled real-time ETL pipelines for **10GW+ renewable energy assets**, cutting API/data transfer times and lowering cloud and infrastructure costs by **~55%**.
- Built a customizable anomaly-detection system for large solar, wind, and battery assets; configurable for any asset type, rule, or threshold, and flagged **~98%** false alarms and detected >**92%** missing alarms.
- Built predictive models to forecast device downtimes **2–4 months in advance**, with >**95% accuracy** for device health scores for failure detection.
- Authored a Python framework powering automations and ETL pipelines; adopted company-wide as the standard for renewable energy data processing. Reduced customer onboarding time from **2–3 months to 1 workday**.
- Optimized AWS Lambda and container-based ETL, reducing compute/storage costs by **48%**.
- Accelerated ElasticSearch historical data pulls from **4+ hours to ~15 minutes per asset**, improving analytics turnaround.
- Developed Streamlit apps for KPI validation, hyperparameter tuning, and model monitoring, used by **20+ stakeholders**.
- Mentored and onboarded **5+ new hires**, reducing onboarding time and improving project delivery efficiency.

Infosys Ltd. Jan 2020 – Mar 2021
Systems Engineer, Data & Analytics (incl. Internship) *Mysore, IN*
- Completed internship (Jan–Mar 2020), recognized as a **top performer** in **2 capstone projects** (Banking & Insurance).
- Managed ETL operations for **2000+ workflows** in Informatica PowerCenter, and performed client database and service migrations with **zero data loss**.

Publications

RCICD Conference, Best Research Paper Award May 2020
- Mishra, A. et al. *Image Super Resolution using Feedback Loops in GANs*.

Hackathons

HAC-2020 (MLH Member Hackathon) Technical Team Lead, Organizing Committee Apr 2020 – Sep 2020
HAC'KP 2020 Hackathon Top Qualifier Aug 2020
IIT Madras Robotics Competition (Arduino) Winner (1st) Mar 2018

Projects

Third Eye – Threat Detection System A real-time facial recognition system using OpenCV and an Nvidia Jetson Nano; integrated with Kerala Police database for live threat detection and alerting.

PDF Workbench A browser-based toolkit to merge, filter, extract, reorder, and manipulate PDF files.

Competitive Sudoku AI Built and benchmarked multiple AI agents for competitive Sudoku.

Full Archive Complete project portfolio available on [GitHub] and [Portfolio Website].

Skills

Programming Python, SQL, Rust, JavaScript, PySpark, C++, Bash, HTML, CSS

Databases & Cloud PostgreSQL, MySQL, InfluxDB, ElasticSearch, AWS, GCP, Docker, Airflow

ML/AI Frameworks Scikit-Learn, Statsmodels, PyTorch, Ollama, Transformers, AutoML, MLX, GenAI, LLMs, Stable Diffusion

Tools Git, Jira, Confluence, Swagger, Postman, jFrog, Excel, PowerPoint, Latex