ANIKET MISHRA

Email: anmishraofficial@gmail.com **Phone:** +91 7550121476
GitHub: github.com/aniket-mishra **LinkedIn:** linkedin.com/in/aniket97 **Website:** Aniket-Mishra.github.io

EDUCATION

M.Sc in Data Science and Artificial Intelligence, Eindhoven University of Technology **September 2024 - Present**

B.Tech in Computer Science, SRM IST **May, 2016 – June, 2020**

EXPERIENCE (3.5 Years)

Data Scientist, Avathon (Formerly SparkCognition, India) **Mar 2021 – July 2025**

- Designed, developed, deployed, and maintained robust real-time ETL pipelines for over 10GW of energy farms to the asset performance management platform (SaaS) using **Pandas**, **Django**, **PostgreSQL**, Serverless, **ElasticSearch**, **Airflow**, Hermes, **Kibana**, **Git**, Grafana, Docker, and **AWS** with multiprocessing in **Lambda**, and microservices architecture.
- Built and improved **regression** models and **normal behaviour** models for predictive analytics, using DBC, Rolling means features, and Actual versus Predicted values to predict device downtimes in solar and wind turbines 2-4 months in advance.
- Optimized Lambda and container-based ETL processes to reduce compute/storage costs **by ~48%.**
- Boosted InfluxDB I/O speed by over **300%**, cut data transfer and API times, and slashed operational costs by **70%**.
- Built custom **Streamlit** apps to track and improve **model performance** and metrics using model output files, hyperparameters, and model inputs from the pipeline.
- Designed an anomaly detection system for Wind Turbines and Solar Panels, capturing missing device failures and false alarms with over 98% accuracy. Implemented as a feature in a platform and as a Cron job that flags these alarms in the database.
- Reduced historical data pull time from **ElasticSearch** from **4+ hours to ~15 minutes** per asset.
- Designed a centralized internal library for renewable energy pipelines using Poetry and PyTest; deployed on PyPi and JFrog.

Systems Engineer, Data and Analytics, Infosys **Oct 2020 – Mar 2021**

- Oversaw ETL operations for over **2000** workflows, administered **mappings**, **sessions**, and **workflows** in **Informatica**.
- Assisted the client in switching databases and services with 0% data loss.
- Highest performer in 2 capstone projects in Banking and Insurance domain.

Core Team Member and Developer, Codezoned **Jun 2018 – Present**

- Led the developer team to create and maintain multiple open-source projects including ScriptsDump, one of the world's largest repositories to hold scripts related to Computer Science and Mathematics.
- **Technical Team Lead,** Organizing Committee, HAC-2020, **MLH** Member hackathon.

Data Science Instructor, Freelance **Aug 2023 – Present**

- Data science instructor for corporate training for experienced candidates. Specialising in Analytics and Machine Learning.

PUBLICATIONS

SRFBGAN: Super-resolution Feedback GAN, JETIR Conference, 2020 **May 2020**

- Link: http://www.jetir.org/view?paper=JETIRDV06001
- Developed a novel generator architecture unique to **GANs** by incorporating feedback loops using **PyTorch** for modelling and, **PIL** for Image processing.
- **11% better PSNR** and **6% better SSIM** compared to other state-of-the-art models on average.
- **Best Research Paper** award, **RCICD, 2020**

PROJECTS

Third Eye – Threat Detection System: HAC'KP-20 **Aug 2020**

- Built a potential threat detection system to detect faces present in the Kerela Police database.
- Nvidia Jetson Nano was used for input and a real-time alert system was designed.
- Used **OpenCV** with **facial-recognition** and **db-sqlite3** for implementation.

Heart Failure Severity Detection System **Aug 2018**

- Link: https://github.com/Aniket-Mishra/Heart_Failure_Severity
- Built a Heart Failure Detection system to categorise heart failure from levels 1-4 in order of severity.
- Got in touch with Doctors from AIIMS Bhubaneswar to understand the signals better for the model.
- Used **Pandas** for data manipulation with S**klearn** for preprocessing and **Keras** for the Sequential Neural Network.

TECHNICAL SKILLS

- **Programming Languages: Python** 3.XX, **SQL**, HTML, CSS, C, C++, **JavaScript**, Rust
- **Database and Client/Server Technologies: PostgreSQL**, Netlify, Heroku, **AWS**, **GCP**, MySQL, **Docker**, **InfluxDB**
- **Libraries: Pandas, Scikit-Learn,** Keras, Seaborn, Plotly, Flask, **Django**, Numpy, Multiprocessing, jQuery, **Streamlit**
- **Software Tools: Excel, Powerpoint, Git** (Version Control), Jira, Confluence, Swagger, **Postman**, jFrog

CONFERENCES / HACKATHONS

- **Best Research Paper Award: RCICD** Conference-Image Super Resolution using Feedback Loops in GANs**.** **May 2020**
- **Technical Team Lead,** Organizing Committee, HAC-2020, **MLH** Member hackathon. **Apr - Sep 2020**
- Top Qualifiers, **HAC'KP 2020** **Aug 2020**
- Winner, 1st position, Robotics Competition (Arduino), **IIT**, Madras **Mar 2018**