ANIKET MISHRA

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EDUCATION

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

EXPERIENCE

Data Engineer, SparkCogniton (Formerly Ensemble Energy)   **Mar 2021 – Present**
- Designed, developed, deployed and maintained robust real-time ETL Pipelines for multiple large solar and wind farms to the asset performance management platform using **Pandas**, Django, PostgreSQL, **Serverless**, **ElasticSearch**, Hermes, Kibana, **Git**, Grafana, Docker, and **AWS** with multiprocessing in **Lambda** and **microservices** architecture.
- Improved and optimized the code base to standardize it among different customers and to make it more robust by implementing multiple checks on existing ETL processes.
- Updated the Site data model which reduced the mappings and memory used by over **50%**.
- Created an anomaly detection system to capture missing device failure and false alarms with over **99%** accuracy for Wind Turbines and Solar Panels. Optimized and implemented it as a feature in the platform that runs **on demand**.
- Analyzed and performed data engineering for predictive maintenance for a solar farm using a **Normal Behavior Model** followed by **SPRT**.
- Optimized Containers and the API to improve processing speed and storage and, wrote the documentation for the micro services affected.
- Performed functional testing for single tenant deployments of the product.

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 repository to hold scripts.
- **Technical Team Lead,** Organizing Committee, HAC-2020, **MLH** Member hackathon   **Apr 2020 - Sep 2020**

Systems Engineer, Data and Analytics, Infosys   **Oct 2020 – Mar 2021**
- Oversaw ETL operations of over 2000 workflows, and databases using **Informatica**.
- Assisted the client in switching databases and services with 0% data loss.
- Administered **mappings**, **sessions**, and **workflows** in **Informatica**.
- Highest scorer in 2 capstone projects during training.

PROJECTS

Third Eye – Threat Detection System: HAC'KP-20   **Aug 2020**
- Built a potential threat detection system to detect faces present in the 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.

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**

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
- **Libraries: Pandas, Scikit-Learn,** Keras, Seaborn, Plotly, Flask, **Django**, Numpy, Multiprocessing
- **Software Tools: Excel, Powerpoint,** Git (Version Control), Jira, Confluence, Swagger

CONFERENCES / HACKATHONS:
- **Technical Team Lead,** Organizing Committee, HAC-2020, **MLH** Member hackathon   **Apr 2020 - Sep 2020**
- Top Qualifiers, **HAC'KP 2020**   **Aug 2020**
- Winner, 1st position, Robotics Competition (Arduino), **IIT**, Madras   **Mar 2018**

CERTIFICATIONS AND SPECIALIZATIONS:
- Programming, Data Structures and Algorithms in Python, NPTEL (Certification)
- Statistics with Python Specialization, University Of Michigan (Specialization)