

# Mrunal Narayana

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## EXPERIENCE

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### Engineer | Circana | India | Feb 2024 – Present

- Automated and continuously optimized all team-supported manual processes, resulting in increased efficiency, reliability, and reduced operational overhead.
- Implemented parallel processing for table loading in MonetDB, reducing execution time significantly by 70% enhancing the data pipeline performance.
- Build a dashboard tool to monitor and track all team-supported ETL pipelines, improving visibility, operational efficiency and proactive issue resolution.
- Optimized data processing by implementing a PySpark solution that reduced SQL Audit report generation time from 2-3 days to 2 hours, significantly improving operational efficiency.
- Implemented Airflow DAGs for end-to-end workflow orchestration, ensuring reliable data pipeline execution.
- Developed a custom API for external teams to seamlessly load data into applications, enabling streamlined data integration and reducing manual intervention.

### Associate Engineer | Harman Connected Services | India | June 2022 – Jan 2024

- Developed and implemented innovative software solutions for complex business problems, utilizing agile methodologies and collaborating with cross-functional teams to ensure efficient project delivery.
- Designed and maintained scalable and high-performance systems, utilizing cutting-edge technologies such as Python, Django, Flask, Docker and Cloud-based platforms resulting in a significant reduction in system downtime.
- Implemented Sentiment Analysis algorithms to effectively gauge user sentiments.
- Contributed to scraping, feature addition and analyzing diverse projects, expanding data sources and insights.
- Designed and developed an application leveraging GPT models to generate dynamic sales reports and summaries, enabling real-time customization based on user input and improving reporting efficiency.
- Automated the generation of comprehensive sales reports based on the extracted information, enhancing data-driven decision-making processes.
- Crafted intuitive and user-friendly interfaces, enhancing user experience and engagement.
- Automated end-to-end process, reducing manual intervention and improving project efficiency and delivery.
- Seamlessly integrated applications with backend automation systems, ensuring a cohesive workflow.
- Deployed applications on client & cloud servers, ensuring accessibility in and out of the network.
- Implemented queuing systems, balancing load distribution and drastically improving performance.

## TECHNICAL SKILLS

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**Languages:** Python, SQL, Bash

**Libraries:** Pyspark, Pandas, Django, Flask, FastAPI, Tkinter, Pygame, Streamlit

**Databases:** Postgres, Monet, Apache Hive

**Tools:** WSL2, Git, Docker, Airflow

**Concepts:** Automation, Orchestration, ETL pipelines, Parallel Processing, Distributed Systems, API, Full-Stack

## PROJECTS

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### Live Detection of Plant Leaf Diseases by using CNN

The project is about detecting plant leaf diseases through images in real time. The system uses deep learning techniques to classify and detect plant leaf diseases. The classification of numerous plant diseases has been greatly aided by deep learning using Convolutional Neural Networks.

**Technologies Used:** Python, Deep Learning, CNN, OpenCN, Tensorflow.

**Github:** [github.com/meliodas0n/pldd.git](https://github.com/meliodas0n/pldd.git)

## EDUCATION

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### B.E

Nagarjuna College of Engineering and Technology (CGPA : 8.35)

Bangalore

08/2018 - 08/2022

## AWARDS AND ACHIEVEMENTS

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- Acknowledged by management for outstanding initiatives, receiving commendation for exemplary work.
- Recognized for outstanding achievement, securing second place among numerous projects in the Computer Science Department.