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Pranay Reddy Dasari

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EDUCATION

Indiana University [Bloomington, Indiana]

August 2021 — December 2022

Master of Computer Science

GPA: 3.7

GITAM University [Hyderabad, India]

July 2015 — April 2019

Bachelor of Technology in Computer Science

GPA: 3.5

SKILLS

Languages	Java, Python, R, JavaScript (React, Node) SQL (Oracle, Postgres), Bash.
Frameworks	Scikit, TensorFlow, Keras, Pytorch, Django, Flask, gRPC.
Cloud Technologies	AWS (S3, EC2, Lambda), Azure (DevOps, App Services, ML Studio, Synapse, DataBricks, Repos).
Tools	Apache Spark, Apache Airflow, Docker, Kubernetes.

TECHNICAL EXPERIENCE

Machine Learning Intern

May 2022 — August 2022

Asset Class Technologies LLC

Piscataway, NJ

- Integrated Azure Pipelines and Repos to create and maintain CI/CD pipelines for ML models, increasing automation of DevOps processes by 60%.
- Implemented a Spark-based automated reporting system to identify quality gaps in the analytical platform and collaborated with the Data Engineering team to resolve issues, improving platform data consumption capabilities.
- Created data pipelines and inference deployments for batch processing and real-time ML models.

CRM Marketing Data Analyst

October 2021 — April 2022

IU Studios – Indiana University Bloomington

Bloomington, Indiana

- Utilized Salesforce Marketing Cloud (SFMC) to segment audiences and manage targeted campaigns, utilizing features such as data extensions, lists, and journeys.
- Automated manual data preprocessing tasks for large excel files using Python scripts and SQL queries, reducing processing time by 4 hours and increasing efficiency.

Data Engineer

Apr 2019 — May 2021

WIPRO Ltd

Hyderabad, India

- Created a data migration pipeline using Apache Airflow, extracting data from Oracle, transforming it, and loading it into Snowflake, improving performance by 40% and reducing query time by 30%.
- Developed and deployed data pipelines for automated loading of 2 million records daily into the system with a 99.9% accuracy rate.
- Designed and constructed real-time dashboards with embedded analytics features enabling quick monitoring of scheduled jobs resulting in a 15% reduction in errors.

Machine Learning Intern

May 2018 — July 2018

System Soft Technologies

Hyderabad, India

- Improved the accuracy and relevance of the job recommendation system using collaborative filtering and content-based techniques.
- Enhanced data preprocessing and feature engineering practices to increase model robustness.
- Implemented A/B testing to compare the performance of the updated recommendation system against the previous version.

PROJECTS

Flexible and Fault-Tolerant MapReduce: A Distributed Processing Framework

Tech Stack: Python, gRPC

- Developed a distributed processing framework with a user-specified map and reduce functions.
- Utilized Remote Procedure Call (RPC) and Heartbeat mechanism for improved fault tolerance.
- Demonstrated the system's capabilities by performing large-scale evaluation using a 100GB data file and parallel operations with 100 mappers and 50 reducers.

Shortest Path Navigation

Tech Stack: Web Scraping, Python, AI

- Developed and implemented an A* algorithm utilizing a curated dataset of major highway segments in the United States to calculate the shortest distance between any two cities, with optimized performance and reduced computation time.
- Utilized various data preprocessing and cleaning techniques, such as heuristics, to improve the accuracy of the algorithm.