Swapnil Somashekhar Hoskatti

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Education

University of North Carolina at Charlotte — Charlotte, NC
MS Computer Science, Data Science and Management *GPA: 4* — Aug 22 - May 24

University of Mumbai — Mumbai, India
B.Tech Computer Engineering *GPA: 3.2* — Aug 15 - May 19

Experience

University of North Carolina at Charlotte — Charlotte, NC
Research Assistant — Jan 24 - May 24

- Collaborated on Graph Neural Networks research, identifying causal links in event relationships
- Worked on research involving Fine-Tuning LLMs using LangChain, Ollama, GoogleTranslateAPI and Python
- Worked on Google Cloud Platform in setting up LLM API using Cloud Functions and Cloud Run, stored the response metadata and created a dashboard using Google Cloud SQL and Looker Studio

Marand Builders Inc. — Charlotte, NC
Data and Technology Analyst Intern — June 23 - Aug 23

- Designed a ERD Diagram for the Company Database
- Developed ETL Pipelines using Azure Data Factory to stream data from different sources into Azure Database, reducing 90% operational efforts
- Developed Data-Driven dashboards in PowerBI

Teradata — Mumbai, India
Associate Data Engineer — Sept 19 - June 22

- Assisted writing scripts for on-prem to AWS and Azure Cloud migration
- Led Backup and Restore project, reducing human supervision by 80% by automating the data pipelines.
- Developed a unified tool for ETL job conversion, accompanied by insightful dashboards for informed decision-making, reducing workload by 75%
- Automated various other data pipelines and project build jobs using Jenkins
- Enhanced efficiency and modernized existing tools by developing Python and Bash Scripts, further simplifying the code base

Skills

Programming Languages:	Python, C, C++, BASH, Java, JavaScript, SQL, PHP, TypeScript, React
Libraries/Frameworks:	Ollama, Scikit, OpenCV, PyTorch, Node, Django, Flask, DGL, Streamlit, React.js, Express.js, Tensorflow
Databases:	ChromaDB, PostgreSQL, Oracle, MySQL, Teradata, SQLite, MongoDB, GraphQL
Tools:	Git, Jenkins, AWS, Azure, Microsoft, Linux, Google Cloud, Docker, PowerBI

Projects

Link Prediction using MuxGNN *Python, Pytorch, DGL, Matplotlib* — Github
Applied MuxGNN to ICEWS datasets to predict world event dependencies using Deep Graph Library (DGL)

Enhancement to Canvas Notification System *React.js, Express.js, MongoDB, Flask, RestfulAPI* — Github
Developed an Canvas demo with added feature to notify students/faculty about the upcoming tasks

Creating Stunning Animations from Still Images *Python, PyTorch, OpenCV, Scikit, Keras, cGANs* — Github
Utilized cGANs and CNNs to create animations from still images

Melanoma Skin Cancer Detection *Python, Flask, Tensorflow, OpenCV, Scikit, Keras* — Github
Implemented a skin cancer detection system using CNN and RNN, achieving an accuracy of 72.63% in classifying images as Benign/Malignant.

Awards

Teradata Hackathon Winner — Teradata
Analysis and proposal of solutions to telecom business problems using Machine Learning algorithms to provide predictions — November 2019

1st Runner Up for Project Paper Presentation — St. Francis Institute of Technology
Melanoma Skin Cancer Detection using Image Processing and Machine Learning. — March 2019