

ADARSH GOGINENI

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SKILLS

Skills: Git, HTML/CSS, Python, Tensorflow, React.js, SQL, MySQL, Flask, Django, SSIS, Git, Github, Pytorch, Jupyter, Keras, NumPy, Pandas, Docker, Kubernetes, AWS, Microsoft Azure, Google Cloud Platform, Tableau

PROFESSIONAL EXPERIENCE

Stevens Institute of Technology

Hoboken, NJ, USA

AIRS Research Fellowship / *Text to ESQ Generation in Healthcare*

January 2024 - Present

- Developed and implemented transformer-based NLP models, including BERT and GPT, to generate ElasticSearch queries from natural language questions, increasing query accuracy by 15% for medical records in NoSQL databases
- Created a comprehensive Text-to-ESQ dataset of over 10k template questions using automatic generation and manual annotation, enhancing model training and evaluation, resulting in a 20% improvement in query generation precision
- Fine-tuned various large pre-trained language models and applied semantic parsing techniques including constituency parsing and dependency parsing boosting the model performance by 18% and ensuring robust query generation

CDW Corporation

Chicago, IL, USA

Data Engineer

March 2022 - May 2023

- Developed and optimized Big Data ETL pipelines in SSIS and Azure Data Factory; Facilitated the preprocessing of 1 billion sales records for training with TensorFlow and Keras; Enhanced model performance by 9%.
- Conducted data analysis and SQL transformations on customer sales datasets exceeding 500 million entries utilizing Python (Pandas, NumPy, and Scikit-learn); Boosted predictive analytics model accuracy for customer behavior insights by 5%
- Coordinated cloud-based ML deployments on AWS across 3+ major projects, achieving a 15% reduction in data schema update times; Automated deployment tasks with Docker and Kubernetes, enhancing CI/CD pipeline efficiency

LIGL

Austin, TX, USA

Technical Support Engineer

January 2021 - March 2022

- Designed and executed Python scripts and SQL queries to consolidate and process data from over 10 distinct sources into a comprehensive, interactive dashboard; Significantly improved efficient data integration and analytics
- Automated data processing and Personally Identifiable Information (PII) extraction workflows, resulting in a 20% improvement in data quality and integrity for future machine learning models and applications
- Optimized tool performance and successfully resolved over 100 support tickets related to SQL server maintenance and security, achieving 99% uptime and ensuring reliable data access for decision-making models

PROJECTS & OUTSIDE EXPERIENCE

Anime Recommender - [Link to project](#)

Hoboken, NJ, USA

Developer

December 2023 - January 2024

- Engineered an ML recommender using Cosine Similarity in Python to analyze preferences and suggest anime with an accuracy of 85%
- Optimized for scalability and real-time recommendations, deploying the algorithm with a UI using Flask, enhancing user experience

Waste Wizard - [Link to project](#)

Hoboken, NJ, USA

Developer

January 2024 - March 2024

- Launched a recycling aid with React, TensorFlow and a CNN model to classify and categorize waste through user-uploaded images
- Ensured real-time classification with 92% accuracy deployed on an AWS EC2 instance and AWS Lambda for serverless operations

Masala Magic - [Link to project](#)

Hoboken, NJ, USA

Developer

January 2024 - June 2024

- Developed a recipe generator using Retrieval-Augmented Generation (RAG) with a dataset of 700+ Indian recipes
- Utilized LangChain to implement RAG, enhancing recipe search accuracy and relevancy based on user-inputted ingredients

NYC Housing Price Predictor - [Link to project](#)

New York, NY, USA

Developer

September 2023 - Present

- Built a Flask UI to predict housing prices using XGBoost for machine learning predictions and Pandas for EDA of 10,000+ listings
- Integrated a UI for housing feature selection and visualization using Matplotlib for immediate market value estimations

EDUCATION

Stevens Institute of Technology

GPA: 3.8

Master's, Machine Learning

Rutgers, the State University of New Jersey - New Brunswick

GPA: 3.45

Bachelor's, Computer Engineering

ACTIVITIES

Academic Operations and Affairs Committee, Software Engineering Club, Stevens Club Volleyball, Graduate Admissions Assistant, Center for Healthcare Innovation (CHI) Next-Gen Symposium Board Member