Shivanee Jaiswal

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EDUCATION

Georgia Institute of Technology, Atlanta, GA, USA	Aug 2022 - May 2024		
Master of Science in Computer Science (specializing in Machine Learning)	GPA 4.0/4.0		
Courses: Algorithms, Machine Learning, Deep Learning, Data Viz. & Analytics, Multimedia Networking, Computer Vision			
University of Mumbai , Mumbai, India	Aug 2016 - Oct 2020		

University of Mumbai, Mumbai, India

Bachelor of Technology in Computer Engineering

Courses: Data Structures, Object Oriented Programming, DBMS, Software Engineering, Distributed and Cloud Computing

WORK EXPERIENCE

Software Engineer Intern

Juniper Networks

- 0 Upgraded & deployed Node.js vulnerability tracking tool, resulting in the publication of **17 security advisories** for Q2 2023.
- Fine-tuned LLMs (Flan-T5, MBART 50, Llama2) for generating snippets of search engine results with a ROUGE score of 52%. 0
- Applied Performance Efficient Fine Tuning using Low-Rank Adaptation (LoRA) to reduce trainable parameters by 98%. 0
- Explored the LangChain framework to build a Question Answering system for a dataset of 30,000+ articles. 0

Computer Vision Intern

Trisetra Inc

- Trained an SSD model with 88.6% accuracy using Tensorflow Object Detection API to detect window blinds in images. 0
- 0 Implemented dominant color recognition in images le unsupervised learning & image processing to generate 3D assets.
- Compiled a comprehensive database of ~1000 furnishing products by scraping websites with BeautifulSoup. 0

Associate Software Engineer

Wissen Technology

- Built Spring & Spring Boot services to build financial reports by querying > 21 million rows from multiple data sources. 0
- Optimized complex SQL queries to fetch metadata, resulting in a 67% reduction in query execution time. 0
- Developed a reusable Angular-based UI library for rendering financial reports and dashboards from JavaScript configurations. 0
- 0 Wrote a Python script to query ~28 million rows of data from Teradata and convert them to Tableau Extract.
- Configured CI/CD pipelines leveraging Jenkins, and increased coverage of unit & end-to-end test cases by 43%+. 0

PROJECTS

Prompt-based Journaling App | SwiftUI, Flask, LangChain, Heroku, Firebase [GitHub]

- Architected an iOS journaling app & REST API under 36 hours, with daily prompts and interactive stickers to foster social 0 connections.
- Collaborated in a team of 4 to develop the app utilizing SwiftUI, Firebase Authentication, and Realtime Database. 0
- Incorporated LLM-generated daily prompts based on previous entries using Flask, LangChain, and GPT 3.5. 0

SageVR: A Novel Approach to Conventional Therapy | Unity3D, C#, Meta VoiceSDK, ChatGPT [GitHub]

- Developed a VR application for Meta Quest 2 on Unity to support therapeutic conversation with the user's older self. 0
- Integrated GPT for generating dialogue and employed prompt engineering to simulate the older self's responses. 0
- Used VoiceSDK and Wit.AI to implement real-time text-to-speech & speech-to-text conversion, with < 5s response time.

Big Data Song Visualization & Analysis | JavaScript, Python, PySpark [Poster] [Website]

- Built an interactive network graph using the Million Song Dataset and D3.js to recommend similar music artists. 0
- 0 Used PySpark to preprocess the dataset by filling in missing values and computing aggregated metrics for the visualizations.
- 0 Conducted 5 user interviews to evaluate the dashboard on various metrics like usability, usefulness, etc.

SKILLS

Programming: Java, Python, C/C++, MATLAB, HTML/CSS, TypeScript, JavaScript, Swift, Scala, PHP Tools & Frameworks: Node.js, Flask, Angular, Spring Boot, Express.js, REST API, Git, Jenkins, Docker, Spark, SwiftUI Machine Learning: Keras, Tensorflow, PyTorch, OpenCV, NumPy, Pandas, Scikit-Learn, HuggingFace, LangChain Databases, Platforms, OS: SOL, MongoDB, Google Cloud Platform (GCP), Amazon Web Services (AWS), Windows, Unix

ACTIVITIES

- Group Leader for 10+ students, offering campus resources, academic success strategies, and time management guidance •
- Won the 'Best use of Omniverse' track at ImmerseGT for SageVR out of 58 teams and 550+ participants •
- Freelance Technical Writer with 65,000+ blog views [Medium] [KnowledgeHut] •
- Coached 127 Government School Teachers in Python to introduce it in the official school curriculum
- Volunteer at NavGurukul, taught Python to 25+ female students, curated content used by 20,000+ users •

May 2023 - Aug 2023

GPA 9.26 / 10

Sunnvvale, CA

Apr 2022 - Jun 2022

Jul 2020 - Jan 2022

Mumbai, India

Oct 2023

Apr 2023

Feb 2023 - May 2023

Remote