

SHREYA MENON

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EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

Austin, TX

Artificial Intelligence and Machine Learning: Post Graduate Program

October 2024 – July 2025

- **Concepts Studied:** Python, Data Science, Data Analysis, AI, SQL, Databases, Google Colab, Anaconda, Generative AI, Adv. Machine Learning, Neural Networks, Natural Language Processing, Computer Visions, Model Deployment

UNIVERSITY OF TEXAS AT DALLAS

Richardson, TX

B.S. in Computer Science

August 2019 – December 2023

- **Relevant Courses:** Probability & Statistics, Adv. Data Structures & Algorithmic Analysis, Operating Systems Concepts, Digital Logic & Design, Introduction to Artificial Intelligence, Database Systems, Automata Theory, Comp Sci I & II

SKILLS

- Languages: **Python, Java, JavaScript, C/C++, SQL**, MIPS, React Native
- Frameworks: **SDLC, PyTorch, Pandas, ScikitLearn**, OpenCV, **Numpy**, Keras, Tensorflow
- IDEs: **Visual Studio, Xcode, NetBeans, PyCharm**, CodeBlocks, Google Colab, Jupyter Notebook, Anaconda
- Cloud/SCM/Other: **AWS Cloud, GitHub**, Microsoft Office, PostgreSQL, HTML/CSS, Flask, Django, Terraform, Jira

CERTIFICATIONS

AWS Certified Cloud Practitioner (CCP), Coursera AI for Everyone, UT Decision Science & AI Immersion Program Certification, LinkedIn Skill Assessment C++

WORK EXPERIENCE

Amazon Web Services

Dallas, TX

Cloud Support Intern

May 2022 – August 2023

- Optimized cloud architectures by implementing efficient **resource allocation strategies**, reducing latency by **10%** and improving **scalability**.
- Worked to boost **cloud support** and increase **customer satisfaction by 15%** through online customer forums.
- Collaborated with **10+ engineers** to gain hands-on experience in **cloud engineering** and **cloud computing** through intern projects, focusing on **best practices** in **infrastructure design** and **deployment**.
- Learned and applied **15+ cloud technologies**, such as **EC2, S3, RDS, Lambda, CloudFormation, Sagemaker, etc.** to enhance project success.

Jamba Juice

Frisco, TX

Operations Team Member/Shift Lead

June 2018 – August 2019

- Crafted **65+ products daily** following established recipes while ensuring a **positive customer experience**.
- Handled **50+ cash register transactions daily** and promoted products to meet **customer needs**, increasing sales by **10%**.

PROJECTS

AI & Data Analytics Projects

Austin, TX

Research Projects

January 2025 – Present

- **Processed 25,480+ legal case records** and improved document retrieval efficiency using **advanced NLP techniques**.
- Built an **ML-powered financial data analysis pipeline**, processing **100K+ banking records**, achieving **98.3% accuracy** and **100% recall** in predicting loan conversions.
- Optimized **food order analytics for 1,898 records**, enhancing data retrieval and customer behavior analysis.
- **Reduced document processing time by 30%** for visa applications through **automated text analysis** and data cleaning.
- **Improved AI model efficiency by 25%**, cutting computational costs while maintaining high accuracy.

Retrieval-Augmented Generation (RAG) System

Austin, TX

Research Project

January 2025

- Developed a RAG pipeline using **LangChain, FAISS, and LLaMa-2 7B**, improving document retrieval accuracy by **~35%** through search.
- Split over **2,000 text chunks** from financial documents using **recursive character splitting** (chunk size: 2,000 tokens with 200 overlap).
- Integrated **sentence transformer embeddings**, enhancing semantic similarity matching performance by **28%**.
- Reduced inference latency by **30%** through model compression and **optimized vector search with FAISS**.

Nerveli

Richardson, TX

Mobile App Developer Assistant

January 2023 – May 2023

- Assisted in developing the front end of a **mobile app** using **React Native** as part of a team of 5 developers.
- Designed and **implemented 5 custom UI elements** to enable logging of user symptoms.
- **Integrated an AI model** to predict user diagnoses, improving **accuracy by 15%**.
- Collaborated closely with the design team to transform a **prototype** into a fully **functional app**.