

# 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, 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

### Rasika Cosmetics

Irving, TX

Co-Founder/ Head of Data & AI/ML

October 2023 – November 2024

- Built an **AI-powered recommendation** system using customer purchase data to personalize product suggestions and increase conversion rates.
- Developed **computer vision models** to **analyze customer-uploaded images** for accurate shade matching and virtual try-ons.
- Leveraged machine learning to forecast inventory demand, **optimizing stock levels** and **reducing overproduction by over 20%**.

### Amazon Web Services

Dallas, TX

Cloud Engineer 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.

### 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**.

## PROJECTS

### AI & Data Analytics Projects

Austin, TX

Personal 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%**.