SHREYAS DESAI

Software Engineer ◇ Hoboken, NJ
+1 (201) 492-8801 ◇ Email ◇ LinkedIn ◇ Portfolio

EDUCATION

Master of Computer Science, 3.9. Stevens Institute of Technology, Hoboken, NJ Sep 2023 - May 2025
Relevant Coursework – Deep Learning, NLP, Mathematical foundations of ML

Bachelor of Computer Science, 8.4. Shivaji University, Kolhapur, MH, India Sep 2019 - July 2022
Relevant Coursework – Computer Networks, Data Structures and Algorithms, Advanced Microprocessors

SKILLS

Technical Skills	Python, Java, C++, AWS S3, Lambda, API Gateway, Git & Bitbucket
Data Science and NLP	LLMs, Seq-to-Seq Modeling, Deep Neural Networks, Tensorflow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, MLFlow

EXPERIENCE

AI Research, Summer Fellow, SIAI, Stevens Institute of Technology. *Hoboken, NJ* May 2024 - Current

- Designed algorithms using Large Language models for event analysis and inferring causal relations.
- Implemented a system with LLMs for spatio-temporal event summarization, improving accuracy by 1.5x.

Software Engineer, Extrapreneurs India PVT. LTD. *Pune, MH* Aug 2022 - July 2023

- Led diverse teams in Agile execution, improved scrum timelines by 7% & customer satisfaction by 12%.
- Modeled a DL framework with AWS Sagemaker, cutting KYC processing time by 45% and increasing user activity by 19%.

Machine Learning Intern, SessionAI. *Mumbai, MH* April 2022 - Aug 2022

- Hyper-tuned LSTM and RL models, boosted offer engagement by 21% and deployed them on MLFlow.
- Built a transformer-based model for customer sentiment analysis, improving delivery satisfaction by 10%.

Software Engineer Apprentice, Extrapreneurs India PVT. LTD. *Pune, MH* Nov 2021 - Mar 2022

- Automated data sync among cloud services, reducing fetch time by 15% using efficient Python APIs.
- Designed secure ETL infrastructure with serverless cloud solutions, minimizing load time to 5 secs/call.

PROJECTS

Connecting Dots via LLMs. Developed a methodology utilizing LLMs to trace event root causes and create event chains. The system successfully extracts event entities and types using a fine-tuned language model.

PhishBlocker. Led a project classifying phishing URLs with 92%-96% accuracy using URL tokens & syntactic features. Developed a Flask web app for instant phishing risk evaluation, reducing evaluation time by 50%.

Natural Language Processing with Disaster Tweets. Fine-tuned BERT on disaster tweets, increasing the F1-score by 10% to 0.85 through optimized parameters and preprocessing techniques.

ON-CAMPUS INVOLVEMENT

Graduate Student Assistant, ISSS, Stevens Institute of Technology. *Hoboken, NJ* Feb 2024 - Current

- Directed all inquiries from international scholars regarding immigration regulations, visa services and work authorization.
- Streamlined administrative procedures, resulting in a 25% reduction in processing time.