

SHREYA SHARMA

☎ +1 640 204 9203 ✉ ss.shreyasharma1609@gmail.com 🌐 lshreyasharmal.github.io 🔗 linkedin.com/in/shreya916

EDUCATION

Johns Hopkins University

Aug 2022 – May 2024

Master of Science in Engineering in Computer Science

Indraprastha Institute of Information Technology (IIIT), New Delhi, India

Aug 2015 – May 2019

Bachelor of Technology in Computer Science

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, C++

Tools and Technology: PyTorch, TensorFlow, scikit-learn, Large Language Models (LLMs), NLTK, SciPy, pandas, NumPy, Matplotlib, Spring-Boot, Hibernate, Reactive Spring, Django, React-JS, Apache Kafka, MySQL, MongoDB, AWS (EC2, ELB, RDS, S3), Docker, Kubernetes, Git, Maven, RESTful APIs

WORK EXPERIENCE

Oracle America Inc

Austin, Tx

Software Developer 2

July 2024 – Present

- Software development for the Control Plane team in OCI Logging.

SNF Agora Institute, Johns Hopkins University

Baltimore, MD

Graduate Research Assistant (NLP)

Mar – June 2024

- Facilitated the extraction of sermons from YouTube videos, leading to a large-scale dataset of 10,000 transcripts.
- Applied NLP techniques to analyze socio-political messaging for understanding of the religion-politics intersection.

dearYou Health

Baltimore, MD

Full-Stack Software Developer Intern

Jan – May 2024

- Led the rapid development and prototype delivery of a student mental health app, implementing robust features with Firebase and Expo, while mentoring a team of 5.

Center for Language and Speech Processing, Johns Hopkins University

Baltimore, MD

Graduate Research Assistant (NLP and SDE)

Aug 2022 – Jan 2024

- Developed a GPT-based system to enhance proof generation accuracy and efficiency, assessed by human annotators using a REACT-JS application hosted on AWS, culminating in a dataset containing 1000 annotated decompositions.
- Composed 'Recognizing Compositional Textual Entailment' dataset, enhancing internal consistency by +9% and employing knowledge distillation to train LLMs to improve accuracy and proof quality in reasoning engines.
- Designed a tool to benchmark LLMs in extracting analogies from extensive datasets, with human evaluation confirming the task's well-defined nature through unanimous agreement among annotators.

MakeMyTrip.com

Delhi NCR, India

Senior Software Developer

Jun 2019 – Jul 2022

- Created efficient travel booking and reporting backend microservices, reducing response time by 0.6 seconds and boosting platform traffic by 25%.
- Constructed a novel multi-level approval workflow with a dynamic 'Policy Management System', automating approval flows for 30,000 daily booking requests to enhance efficiency.
- Implemented reactive micro-services and database for managing user reimbursements in travel bookings, leading to the successful launch of a new product on MakeMyTrip's corporate platform and a 10% increase in client acquisition, earning recognition with the GoTripper of the Month award.
- Built a Kafka-based high-throughput, fault-tolerant data pipeline to oversee 1 million daily wallet transactions, resulting in a 35% decrease in operational issues.

PUBLICATIONS [\[LINK\]](#)

Co-authored over 5 research papers in prominent venues in NLP (ArXiv, ACM-ICMI) and ML (JCM, IEEE-ISAP).

PROJECTS [\[LINK\]](#)

Comprehend.it: A platform that generates educational materials from videos via auto-to-text and prompt-engineering.

LangPrep: AWS app for pronunciation learning, using Textract for OCR and Polly for text-to-speech, with S3 storage.

Language Embedding Generator: Trained GANs for language-agnostic embeddings using multilingual BERT models.

Long-Form QA System: Fine-tuned T5 on ELI5 data for multi-source answers, with BM25 and FAISS retrieval for context.

SMI Management: Developed Android and Django apps for Severe Mental Illness management with AIIMS Delhi. [\[article\]](#)