

Adhip Kashyap

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EDUCATION

• Arizona State University

M.Sc in Computer Science; GPA: 3.6/4

Tempe, AZ

Aug 2022 – May 2024

TECHNICAL SKILLS

- **Languages:** C, C++, Python, JavaScript, SQL, PHP, Java, Go, Scala, Rust.
- **Technologies/Frameworks:** Pytorch, Tensorflow, huggingface, ML, xgboost, LLMs, pandas, Numpy, D3.js, AWS, Flask, Redis, docker, neo4j, Vercel

WORK EXPERIENCE

• InduzBuy

Software Developer Intern

Bengaluru, India

June 2023 – Aug 2023

- **GPT-3 Customer Requirement Parser:** Built a script using GPT-3 and string similarity metrics to parse buyer requirements, normalize supplier catalogue data and find the best matches.
- **Laravel Migration:** Spearheaded the migration of the existing code base from core PHP to Laravel — introducing a streamlined Model-View-Controller architecture for improved modularity, scalability, and maintainability.

• ICICI Lombard

Software Developer

Bengaluru, India

Oct 2019 – Aug 2022

- **Renewals Portal:** Led the development team tasked with a major overhaul of the customer portal built on ReactJS and backend microservices in Lumen — reducing renewal process time from 1 hour to under 10 minutes.
- **Rule Engine:** Created a GraphDB-based decision tree using Neo4j to compute key components of the insurance premium, improving load times by 40% with significantly better maintainability by pruning redundant rules.
- **Microservices Migration:** Developed internal tools and implemented tests using AWS CloudWatch to monitor query times and cluster health for the Renewals platform. Worked on the migration of the monolith platform to smaller microservices built in Lumen which improved fault tolerance and scalability, enabling the system to accommodate significantly more concurrent users.
- **Work From Home Solution:** Built a CRM mobile app during COVID-19 lockdowns using React Native and NodeJS, allowing customer relations executives to operate remotely using their phones.

• AutoNinja

Software Developer

Bengaluru, India

Jun 2019 – Oct 2019

- **Error Monitoring:** Implemented a custom error monitoring system using Sentry to track and resolve errors in the production environment, bringing the mean time to resolve from hours to 30 minutes.

Technical Intern

Jan 2019 – Jun 2019

- **Event Management Portal:** Designed and implemented SQL tables and APIs in Laravel to create, manage, and track promotional events for clients. Built a frontend in AngularJS enabling customers to access and download auto-generated reports.

PERSONAL PROJECTS

- **catELMo TCR-Epitope Binding Affinity Prediction:** Designed and Trained a CNN to predict TCR-Epitope binding affinity using embeddings generated by catELMo, a bi-directional amino acid embedding model. The resulting model achieved an accuracy of 90% on the test set.
- **LLM Science Exam:** Trained a DeBERTa-v2 LLM to answer STEM Multiple-choice questions as part of a Kaggle Competition. Implemented a RAG system using Cohere APIs and TF-IDF to provide the model with contextual information. Resulting Model had MAP@3 score of 0.92 on the competition test data set.
- **Scalable Data Processing Pipeline:** Created a comprehensive data-processing pipeline to parse and analyse the open NYC taxi dataset using neo4j, Apache Spark, Hadoop, and Kubernetes.
- **Visual In-context Learning Model:** Implemented contrastive learning for feature extraction in Visual In-Context Learning (ICL), using a two-stage process with unsupervised and supervised retrievers to select relevant demonstrations. Optimized retrieval performance through contrastive learning objectives, improving model transferability across downstream tasks. Resulted in a 10% increase in accuracy over baseline in VOC the Pascal-5i dataset.