Abhinav Kulkarni

Remote (India) | Approved H1-B & I-140
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WORK EXPERIENCE

ConcentricAI, *AI Team* — Remote (India)
Technical Lead — March 2023 – current
- Ideated & scaled document classification & clustering system with unbounded taxonomy for Data Loss Prevention (DLP) purpose
- LLM-driven human-in-the-loop system for a document labeling & synthetic document creation
- Implemented various vector similarity techniques for a variety of use cases
- Keywords: **LLM, ANN, VectorDB, Large-scale Clustering**

JKStream, *Fullstack* — Remote (India)
Founder — August 2020 – current
- Ideated & built a novel way of consuming podcast audio content - by subscribing to popular personalities and guests.
- Keywords: **NLP, Microservices, Web Crawling**

Zillow Group (Zillow), *Document Understanding Team* — San Francisco, CA
Senior Applied Scientist — June 2019 – January 2020
- Contributed to the early stages of document understanding project for real estate transaction documents and helped prototype POC.
- Keywords: **OCR, NLP**

Zillow Group (Trulia), *Applied Science (AI) Team* — San Francisco, CA
Senior Applied Scientist — July 2013 – June 2019
- As one of the founding members of Trulia's Applied Science team, I have been involved in designing & deploying algorithms that power Trulia's real time recommendation systems by analyzing user behavior, real estate, neighborhood and local amenities data. Trulia uses classical Machine Learning as well as Deep Learning techniques to power these systems.
- These systems have powered Trulia's multiple communication channels (desktop web, email, mobile app, push notifications, etc.) and SEO.
- Designed and implemented distributed, scalable user feature stores & related data communication channels to serve real time recommendations in AWS.
- Detecting spam and fraud on the website. [2]
- Keywords: **Search, Ranking, Recommendation**

Microsoft Corporation, *Search Technology Center* — Hyderabad, India
Software Development Engineer — October 2009 – August 2011
- Contributed to improving the relevance of location queries by mining data from local sites.
- Incorporated offline-computed geo-specific popularity of websites in search engine ranker.

KEYWORDS

Machine Learning, Artificial Intelligence, Deep Learning
Big Data, Scalable & Reliable Systems

EDUCATION

University of California, Irvine, MS, CS, 3.81/4.0 — 2011 – 2013

National Institute of Technology, Tiruchirapalli, India, BTech, CS, 8.34/10.0 — 2005 – 2009

TEACHING EXPERIENCE

Teaching Assistant — Winter 2013, UC Irvine
- ICS 31: Introduction to Programming: Conducted lab sessions for Python programming.
- INF 133: User Interaction Software: Grader for student Android projects.

GRADUATE COURSEWORK

Machine Learning	Probabilistic Learning	Probabilistic Graphical Models
Statistical Computing	Intermediate Statistics I & II	Statistical Methodology I & II
Bayesian Statistics	Information Retrieval	Principles of Data Management
Data Structures	Computer Architecture	

AWARDS

Team mentioned in the special meritorious list of ACM ICPC 2008, South Asia Region.

Patents

[1] S. Rawat, J. McConathy, T. Holloway, S. Gopalakrishnan, and A. Kulkarni, *Automatic updating of real estate database*, US Patent 10,430,902, Oct. 2019.

[2] J. Kong, A. Kulkarni, and T. Holloway, *Automatic detection of fraudulent real estate listings*, US Patent 9,990,639, Jun. 2018.