# Abhinav Kulkarni

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WORK EXPERIENCE

**JKStream.com**, *Frontend & Backend* — Remote
*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, Flutter**

**Cruise Automation**, *Perception Team* — San Francisco, CA
*Senior Machine Learning Engineer* — January 2020 – August 2020
- Left at the onset of COVID-19

**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, Form & Table Detection**

**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.) as well as 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 relevance of location queries by mining data from local sites.
- Incorporated offline-computed geospecific popularity of websites in search engine ranker.

SKILLS

**Languages:** Python, Java, C++[3]
**Libraries & Frameworks:** scikit-learn, PyTorch
Hadoop, PySpark, Storm, Redis, Solr
AWS — EMR, Datapipeline, SQS, Kinesis, SNS, DynamoDB

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

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|---|---|---|
| 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.

[3] Beginner/Rusty [4] Intermediate