

# Kushagra Bhargava

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## EDUCATION

**MS, Computer Science**, University of Southern California, Los Angeles **GPA: 3.57 | December 2020**  
Honor: NextGen Fellow, Internet Corporation for Assigned Names & Numbers (ICANN66)

**B.Tech., Computer Science and Engineering**, GGSIPU, India **CPI: 77.53 | July 2012 — May 2016**  
Honor: Best Outgoing Student (Department of Computer Science)

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## TECHNICAL SKILLS

**Languages and Databases**: Python, Java, JavaScript, Bash, Swift (iOS), MySQL, MongoDB, Redis

**Data Engineering**: Celery, Apache Storm, Selenium, pandas, numpy, scikit-learn, Version Control (Git)

**Web Development**: NodeJS, ReactJS, ExpressJS, PHP, REST APIs

**Coursework**: Machine Learning, Web Technologies, Analysis of Algorithms, Database Systems, Advanced Mobile Devices & Game Consoles

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## WORK EXPERIENCE

**Full Stack Developer — Apple India** via Randstad India **June 2018 — December 2018**

- Developed a crowdsourced data annotation system using **MERN stack** to organise and conveniently categorize consumer feedback based on taxonomies for each Apple product.
- Built scalable end-to-end pipeline streamlining client requests ensuring **data concurrency & consistency**.
- Engineered recorded annotations to serve as a training dataset for an NLP model & **automate sub-categorization** of consumer issues received for each product.
- Designed a **normalised storage schema** for unstructured data, earlier stored in scattered spreadsheets.
- Enhanced **UX & throughput** by building robust UI for handling large data influx in crowdsourced system.
- **Technologies used**: ReactJS, ExpressJS, Python, MongoDB & MySQL

**Research Associate — Precog Labs, IIIT Delhi, India** **June 2016 — June 2018**

- Designed an application, conducting forensic analysis of data generated on online social networks.
  - Implemented an async distributed-task queue, and real-time computation mechanism for processing unbounded streams of data, achieving **scalability**, & enhancing **resilience to failure** by **17.95%**.
  - Being currently used by **100+** state and federal government agencies and armed forces across India.
  - **Technologies used**: Celery, Redis, Python, Apache Storm (Py wrapper) and MongoDB
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## PROJECTS

**SocialRep: Detecting Twiterrati with Manipulated Follower Count** (Python, REST API, scikit-learn)

- Proposed unsupervised neighborhood detection using **k-d tree** for identification of Twitter users (with **98.62% precision**) bolstering their online social reputation via inorganic manipulation of follower count.
- Achieved **84.2% accuracy** for computing corrected follower count using neighborhoods of 500 relevant topic experts showing similarity on features eg. interest topics in user bio, account creation time etc.

**Real-World Object Detection and Occlusion in Augmented Reality** (iOS, XCode, ARKit)

- Designed **iOS plugin** to retrieve position & spatial orientation of real-world objects of any shape & size.
- Enhanced AR experience in iOS by allowing to **occlude virtual entities** behind real objects in 3D space.

**Comment Based Seller Trust Model for E-commerce** (Java, Python, Selenium, scikit-learn, MongoDB)

- Designed reliable seller trust model to compute cumulative feedback rating (user-ratings + textual reviews) of local sellers registered on Indian e-commerce platforms: amazon.in & flipkart.com.
  - Implemented supervised learning using **linear SVM** for sentiment classification of consumer reviews.
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## ACHIEVEMENTS

**Youth Fellow, Internet Governance Forum**, United Nations, Paris, France

**August 2018 — November 2018**