

Ujjwal Kumar Singh

<http://www.ujjwalksingh.com>

Email : ujjwalks01@gmail.com

Mobile : +91 8826235246

EDUCATION

- **Indian Institute of Technology** Kanpur, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.2 *Aug. 2010 – Dec. 2014*

EXPERIENCE

- **Mindtickle** Pune, India
SDEII *Jun 2017 - Present*
 - **Incremental Sync:** Single REST Api to synchronise mobile and backend. Used Kafka for messages streaming and couch-base as data dump
 - **Deep Link and Cross-Platform Integration:** Node REST microservice to generate deep link to help routing on web and on mobile.
 - **Augment Reality:** Interactive virtual content for user in real environment. Uses image processing and spatial tracking to augment real conspicuous environment.
 - **Mobile Architecture:** Architect and Developer of main customer android app.
- **ruly** Delhi, India
Co-Founder *Oct 2015 - Feb 2017*
 - **Platform:** Social platform for serving individual legal needs and queries.
 - **Recommendations and Indexing:** Recommendations based on user activity and likes. Auto-suggestion for query asked based on indexing using solr and ES.
 - **Database:** Primary database - MySQL database using Amazon RDS. Document indexing using Amazon elastic search service.
 - **Data Collection:** Collected data for legal judgments, police station all over India, lawyers on social platforms.
 - **Content Discovery:** Designed platform with primary concern for relevant content discovery. Relevant Q/A's, judgments, legal project can be searched with single text query.
 - **Android App:** Created customisable android app for lawyers and users.
- **Samsung Electronics** Noida, India
Engineer *July 2014 and Oct 2015*
 - **Ideation and Commercialisation:** Involves sketching and prototyping ideas for patents and developing commercial product for general public.
 - **RPM: Resource Power Manager:** RPM responsibility is to manage power supply to various components in mobile. Enhancement of battery life and monitoring power consumption

PROJECTS

- **Data-Mining Research:** K-Dominant Skyline Join Queries: Extending the Join Paradigm to K-Dominant Skylines.
- **Google Assistant:** Custom google assistant with capabilities to book Uber cab.
- **Slack Bot:** Intelligent messaging slack bot with small talk capabilities using Dialogflow.
- **Gaming Agent:** Agent capable of playing expertly FSM(Finite State Machine) games described using GDL(Game Description Language).
- **Recommendation System:** Movie recommender systems using collaborative filtering on MovieLens datasets.
- **Hostel Management System:** Django based application to manage hall (alias for Hostel in IITK).

ACHIEVEMENTS

- **Data Engineering Publication in IEEE Conference:** K-Dominant Skyline Join Queries: Extending the Join Paradigm to K-Dominant Skylines
- **ACM ICPC International Collegiate Programming Contest 2012:** Kanpur site regional finalist

PROGRAMMING SKILLS

- **Languages:** Kotlin, Python, JS, SQL, Java, Scala **Technologies:** AWS, Kafka, Docker, Android, Django

HOBBIES

Reading non-fictional books, Tech Blogger, Gamer