# Ujjwal Kumar Singh

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## EDUCATION

- **Indian Institute of Technology**

  *Bachelor of Technology in Computer Science and Engineering; CGPA: 8.2*

  Kanpur, India
  *Aug. 2010 – Dec. 2014*

## EXPERIENCE

- **Mindtickle**

  *SDEII*

  Pune, India
  *Jun 2017 - Present*

  ○ **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**

  *Co-Founder*

  Delhi, India
  *Oct 2015 - Feb 2017*

  ○ **Platform**: Social platform for 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.

  ○ **Analytics**: Logging all user activities using kafka and gcloud big data.

  ○ **Android App**: Created customisable android app for lawyer and users.

- **Samsung Electronics**

  *Engineer*

  Noida, India
  *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 Publication**: K-Dominant Skyline Join Queries: Extending the Join Paradigm to K-Dominant Skylines.
- **Google Assisstant**: 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