

# Amit Kumar

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## EDUCATION

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### Indian Institute of Space Science and Technology

Thiruvananthapuram, Kerala

Master of Technology in Machine Learning and Computing

- Department of Mathematics

Aug. 2020 – July, 2022

CGPA: 8.06/10

### Jabalpur Engineering College

Jabalpur, Madhya Pradesh

- Bachelor of Engineering in Information Technology

Aug. 2016 – July, 2020

CGPA: 7.44/10

## TECHNICAL SKILLS

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- **Languages:** C++, C, SQL, Python, LaTeX
- **Technologies:** SQLite, Git, Dagshub

## EXPERIENCE

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### Circlebase

Bengaluru, Karnataka

- NLP Intern

Nov 2021 - Present

- Designed and developed various OCR to extract textual information from medical forms.
- Working on named entity recognizer and relationship extractor for Adverse Drug Event.

### Omdena(Internet & Jurisdiction Policy Network)

Remote

- Lead Machine Learning Engineer

Sept 2021 - Nov 2021

- Knowledge graph generated using triplet extractor from wikipedia article.
- Datasphere was designed and developed using NLP tools such as Spacy, Stanford coreNLP and NLTK.
- Use to understand and visualize a large corpus of texts for policy makers.

### Intec Infonet Pvt. Ltd.

New Delhi, India

- Software Engineer Intern

June 2018 - July 2018

- Developed an automatic timetable system that has succeeded in solving the university timetable problem. We also showed how to embed a timetable system as a desktop application.
- Learnt good security development standards and practices.

## PROJECTS

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### • Intelligent Question Generation

- Generated Fill Up, Multiple choice questions, Wh and Factoid questions from articles.
- Designed multitude of POS tagger, and deep learning based fill up which can be comprehended from text corpus.
- Utilized NLP stanford parser, Rake NLTK, Spacy POS tagger, and word2vec word embedding to generate different question formats.

### • Abnormal Event Detection in Video

- This model provides a way for machines to learn to distinguish between normal everyday events and unusual activities.
- Our architecture consists of two main components, one to capture spatial features and the other to understand the temporal evolution of spatial features on UCSD Dataset.

### • Strength-Weakness of Product

- Devised the rating of the features of the e-commerce product from customer rating and summarise it in good and bad features about the product .
- Developed a model which uses various NLP techniques to identify the rating of the feature.

## ACHIEVEMENTS

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- Qualified for the ACM ICPC 2018 Kolkata-Kanpur site contest held at UIET, CSJM University, Kanpur.
- Codechef Rating - 1883 (amit\_9)
- “So you think you can code” Organised a coding competition on Hackerearth.
- Gold medal in chess Avahan 2018 (Intra college competition).