

# Ayush Tiwari

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## EDUCATION

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- **Indian Institute of Technology, Kharagpur**  
*B.Tech in Computer Science and Engineering; CGPA: 9.81/10.0*  
Kharagpur, India  
July. 2017 – (Exp) May. 2021
- **Delhi Public School, R.K. Puram**  
*All India Senior School Certificate Examination; Aggregate: 94.6%*  
New Delhi, India  
July. 2015 – May. 2017

## EXPERIENCE

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- **CNeRG Lab, IIT Kharagpur**  
*Undergraduate Researcher*  
Kharagpur, India  
Jul. 2019 - Present
  - Currently working on Aspect Based Sentiment Analysis.
- **MatSoc - Delhi Public School, R.K. Puram**  
*Head of Technology*  
New Delhi, India  
Jul. 2016 - May 2017
  - Served as the head of all technological activities at the Mathematics Society of Delhi Public School, R.K. Puram.

## KEY PROJECTS

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- **Blogger**  
*A Social Blog*
  - Designed and built a full fledged blogging application using python flask and deployed it to linode.
  - Implemented the front-end using Bootstrap 4 and jQuery, managed databases using SQLAlchemy.
  - Added authentication, emailing, following and various other features.
  - Currently working on turning it into a RESTful api and rebuilding the front-end using React.
- **ImageNet**  
*A web application that hosts the MobileNet and VGG19 model.*
  - Developed a web application that hosts the pretrained MobileNet model to predict among 1000 different categories
  - Used Express.js and Node.js to build the backend of the application.
  - With Tensorflow.js the model runs on the browser of the client, making the prediction step extremely fast.
- **EasyLogistics**  
*Transport Company Computerisation Software*
  - Designed and built a logistic management software from scratch entirely using Java.
  - Used UML for design, applied Software Engineering principles and techniques at each step of the project.
  - Built the front-end completely using JavaFX with inspirations from Google's Material Design and managed databases using SQLite.

## OTHER PROJECTS

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- **Legal Search Engine** : A search engine for legal files in India with support for Natural Language Query.
- **Web based Servo Controller** : A web interface/application to control the speed of a servo motor remotely.
- **Self Balancing Robot** : A self balancing robot using Arduino and MPU6050 gyroscope+accelerometer for feedback.

## SKILLS

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- **Languages** : C++, Javascript, Ruby, PHP, Java, Python
- **Frameworks and Libraries** : Rails, React, Redux, Express, Django, Flask, PyTorch
- **Other** : Raspberry PI, Arduino

## EXTRA ACADEMIC ACTIVITIES

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- **Member, PhySoc** : Served as a core team member of the physics society of Delhi Public School, R.K. Puram.
- **Member, NSS** : Member of the National Service Scheme under Ministry of Youth Affairs, India.