

# Ankit Khushal Barai

B.Tech Computer Science & Engineering

Indian Institute of Information Technology, Nagpur, India

Nationality: Indian ; Language: English(Fluent) , Hindi(native)

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## OBJECTIVE

Third year undergraduate with majors in Computer Science engineering aiming for a PhD in Computer Science. My Research interests includes Machine learning, Deep learning and Data sciences. I am actively seeking Research opportunities during period of 6 months (July 2020 to Dec. 2020).

I wish to work and contribute to the development of the Research communities while upgrading my skill sets and knowledge.

## EDUCATION

<b>Indian Institute of Information Technology, Nagpur, India</b>	2017 - 2021*
B.Tech in Computer Science & Engineering	CGPA: (9.98/10) (Rank 1)
<b>High School (XII)</b>	2017
Senior Secondary (CBSE)	(94.0%)
<b>Secondary School (X)</b>	2015
Secondary (CBSE)	GPA: (10/10)

## INTERNSHIPS & WORK EXPERIENCE

<b>AI Research Intern - Indian Institute of Science, Bangalore, India</b>	May 2019 - July 2019
<i>DREAM Lab, Deep learning, Drones, Summer Research Fellowship, Indian Academy of Sciences</i>	
· Indian Vehicle License plate detection, Car counting & Database for Drone Analytics	
<b>IoT Research Intern - Indian Institute Of Technology, Kharagpur</b>	Dec 2018 - Jan 2019
<i>SWAN Lab, IoT and Game theory, Raspberry pi</i>	
<b>Database Developer - Exam Section IIIT Nagpur, India</b>	Jan 2019 - present
<i>Responsible for creating Result System developed using JSP and MySQL database</i>	
<b>Intern - KICIT, Nagpur</b>	Jun 2018 - July 2018
<i>IoT programming and Cloud Interfacing</i>	

## PUBLICATIONS

- Automated Visual Analytics for Drones* Ankit Barai et al. in HiPC-2019 (Under Review)
- Load Distribution in Fog using Evolutionary Game Theory* (Ongoing work)
- NSE stock prediction: Deep learning way* Ankit Barai et al. in SoCTA-2019 (Accepted)
- CAP sleep scoring* Detection of A and B phases in eeg signals during sleep (Ongoing work)

## SELECTED PROJECTS

### Automated License Plate Extraction (Deep Learning)

- Dataset collection and model training using Transfer learning and using OCR on top of it.

### NSE Stock Prediction (Deep Learning)

- Stock prediction using Deep Learning algorithms(LSTM,RNN,GRU)

### Vehicle counter for Drones(Computer Vision)

- Vehicle counting using OpenCV trackers for Real time video counting for Drone analytics.

### NYC Subway Visualisation (Data Science)

- Data visualisation to answer insight questions with use of data analytics.

### Result System (Database system)

- Complete result system Database and Marksheet printing system for my Institute

### Awesome Docker (Devops and Dockers)

- Shifting of existing Java Webapp to Google cloud using Docker Containers and Kubernetes.

### API-Mashup (REST API)

- Development of an REST API for getting restaurants based on location and food name making use of Google maps API and Foursquare API

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C, C++, R, Matlab, Bash shell

**Web Technologies:** Django, flask, HTML, CSS, JavaScript, PHP, Bootstrap

**Databases:** Oracle, MySQL, database modeling, data extractions in SQL

**Tools and Frameworks:** Keras, Tensorflow, Netbeans, Latex, ROS

**Operating Systems:** Linux, Windows;

**Embedded systems:** Arduino, Raspberry pi

**Other skills:** Machine learning, Deep learning, Blockchain, Git, Linux shell Programming, Scripting, Data science, REST API's, basics of Cloud Infrastructure.

## COURSEWORK & CERTIFICATIONS

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**Relevant Academic Courses :** Computer Networks, Databases, Operating Systems, Data structures, Design and Analysis of Algorithms, Soft computing

**Udacity Courses :** Machine learning, REST APIs , Data science

**Udemy Courses :** Deep Learning a-z

**IBM and IIT Kharagpur :** Blockchain

## AREAS OF INTERESTS

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Machine Learning, Deep Learning, Big data analytics, Blockchain, Cloud computing, IoT, Data sciences, Agile

## ACHIEVEMENTS

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Current Computer Science & Engineering Branch College Topper

Received letter of Appreciation from Hon'ble Prime Minister of India and Hon'ble Minister for Human Resources, Govt. of India for Academic Excellence.

Recipient of Prime Minister Scholarship Scheme by Government of India.

Recipient of Summer Research Fellowship by Indian Academy Of Sciences

Secured Position in top 0.1% of 1.2 million students in Senior Secondary in Physics and Mathematics; within top 1.66 % In IIT JEE Advanced 2017.

## EXTRA CURRICULAR ACTIVITIES

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Member of Google developers group and Developer Students club; Coordinator for Event "Graphometry" in Technical Fest of college - Tantrafiesta

Declaration: I hereby declare that all information provided above is true and best of my knowledge.

**Ankit Barai**