

# Anubhav Singh

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## EDUCATION

- **Netaji Subhash Engineering College** Kolkata, India  
*Bachelor of Technology - Information Technology; GPA: 7.27* July '16 - June '20  
*Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

- **Languages:** Python, PHP, C++, JavaScript, SQL, Bash
- **Frameworks:** Scikit, NLTK, TensorFlow, Keras, Django, Flask, NodeJS, LAMP
- **Tools:** GIT, PostgreSQL, MySQL, SQLite, Elasticsearch
- **Platforms:** Linux, Web, Windows, Amazon Web Service, Google Cloud Platform
- **Soft Skills:** Leadership, Event Management, Technical Writing, Public Speaking, Time Management

## EXPERIENCE

- **Google Summer of Code - Submittity** Remote  
*Student Developer (Full-time)* May '19 - Sep '19
  - **Discussion Forum Upgrades:** Refactor forum for performance to handle large databases.
  - **REST API for Discussion Forum:** Symphony & Twig based Forum parts converted to API-first interface.
  - **Ratchet PHP WebSocket:** Implemented a WebSocket for low-latency real time exchange of posts and thread updates.
- **DataCamp Inc.** Remote  
*Instructor (Part-time, Contractual)* Dec '18 - Present
  - **Project Course - Find Movie Similarity from Plot Summaries:** Created project based course using Unsupervised learning and natural language processing.
  - **Tutorial - Introduction to Reinforcement Learning:** Created tutorial for Q-learning RL algorithm and concepts.
  - **Impact:** Course has been taken by 250+ students so far with 4.65 average rating.

## PROJECTS

- **AIFY - AI powered web accessibility library (JS Library development, Computer Vision, NLP, Web Crawlers, DialogFlow):** AI generated alternative text for web elements and generated captions for images on page. Voice UI for visually challenged users. JavaScript library and Chrome browser extension. Tech: Python, JavaScript (December '19)
- **Vison - multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing):** (Work in progress) Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- **Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision):** RL based model simulated using SUMO to resolve city traffic more than 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- **Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing):** Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: PHP, C++, Java, Python (March '18)
- **Search Engine and Social Network(Web Development, Web Crawler, Search):** Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites in India during 2012-2013. Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML ( May '12)

## PUBLICATIONS

- **Book: Hands On Python Deep Learning for Web (Web Development, Deep Learning) (April '20):**  
amazon.com/dp/B085472LNB; Published by Packt Publishing. Tech: Django, Python, AWS, GCP, Azure
- **Book: Mobile Deep Learning Projects (Flutter App Development, Deep Learning) (April '20):**  
amazon.com/dp/B085RF4GDV; Published by Packt Publishing. Tech: Flutter, Android, Firebase, TensorFlow, Python, Dart

## HONORS AND AWARDS

- Awarded Venkat Panchapakesan Memorial Scholarship by Google - Jan, '20
- Awarded title of Intel Software Innovator - May, '19
- Second Runner's Up at TCS EngiNx Engineering Project Innovation Content - September, '18
- Runner's Up at Facebook Developers Circle Hackathon - August, '17

## VOLUNTEER EXPERIENCE

- **Community Lead at Developer Student Clubs NSEC** Kolkata, India  
*Conducted online and offline technical & soft-skills training impacting over 3000 students.* Jan '19 - April '20
- **Event Organizer at Google Developers Group Kolkata** Kolkata, India  
*Organized events, conducted workshops and delivered workshops reaching over 5000 developers.* Jan '18 - Present