

Arush Saxena

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EXPERIENCE

SIEMENS RESEARCH | SOFTWARE ENGINEER INTERN

Dec 2019 – Feb 2020 | Bengaluru, India

- Developed a web application which automated the task of project pipeline. The app was fully integrated with features to import, deploy and test the projects.
- The application imported projects from cloud IDE and deployed them on chosen cloud (AWS, Azure or GCP).
- Web sockets were used to display live progress of pipeline on User Interface.
- React, Node, MongoDB, Eclipse-Che, Docker, Kubernetes.

IIT MANDI | TEACHING ASSISTANT

Aug 2019 – Nov 2019 | Mandi, India

- The task involved teaching Python to the freshmen year students along with making coding assignments for the same. The concepts of data science were taught and also coding task was evaluated.

PROJECTS

USING GAIT AS AUTHENTICATION METHOD

NATURAL LANGUAGE PROCESSING

- Identified Users on the basis of their style of walking.
- Trained a Gated Recurrent Unit on the mobile sensor readings.
- Achieved accuracy of 87% using own dataset.
- Python, Tensorflow 2.0, Keras, Sensee.

DENOISING AUTOENCODER ON MNIST DATASET

COMPUTER VISION

- Added noise to MNIST DataSet and Denoised them.
- Achieved almost clear images of original dataset.

APPONAPP (MULTI-PURPOSE WEB PORTAL)

WEB DEVELOPMENT

- Created a web application for booking day to day services.
- Services like Barber, Plumber were made available to book.
- React, Node, MongoDB.

POSITIONS OF RESPONSIBILITY

- Teaching Assistant for Advanced Data Science Course.
- Teaching Assistant for Data Science Course.
- Coordinator of Quizzing Club at IIT Mandi.
- Team Leader at Line Follower competition (runner up).

AWARDS AND ACHIEVEMENTS

- **ACM-ICPC** - Achieved 968 team rank in ACM-ICPC online round 2019.
- **JEE-Advanced** Achieved All India rank of 6275 in Jee Advanced 2017 among 1.4 million other aspirants.
- **CBSE** Achieved 99.8 Percentile and stood third in district in High School Examinations.
- **Google Hash Code 2020** Achieved team rank 203.

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY,
MANDI

B.TECH IN ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE.

EXPECTED JUNE 2021

CGPA: 7.6/10

SGRM PUBLIC SCHOOL

CLASS 12, BAREILLY, INDIA

PERCENTAGE: 94.4

LINKS

Codeforces:// [algo_mafia](#)

Github:// [arushsaxena](#)

LinkedIn:// [arush-saxena](#)

LeetCode:// [arush_saxena](#)

COURSEWORK

UNDERGRADUATE

Engineering Mathematics.

Computer Networking.

Advanced Data Structures and

Algorithms.

Algorithm Design and Analysis.

Pattern Recognition.

Operating Systems.

Deep Learning and it's applications.

(Research Asst)

Probability, Statistics and Random
Processes.

Computer Organization.

SKILLS

PROGRAMMING

Languages:

• C • C++ • Python • Javascript

• Java • FORTRAN • MATLAB

Web Development:

• HTML • CSS • Node • PHP

• React • Flask

Database:

• SQL • MongoDB

Cloud:

• Docker • Kubernetes

OPERATING SYSTEMS

• Linux/Unix

• Windows