

# Tavish Jain

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## EDUCATION

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### Delhi Technological University

*Bachelor of Technology majoring Software Engineering*

New Delhi, India

Aug 2017 – May 2021

## WORK EXPERIENCE

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### The Energy and Resources Institute (TERI) , India

*Software Engineer Intern*

New Delhi, India

Dec 2019 - Jan 2020

- Achieved an accuracy of 93% in Multivariate Time Series prediction of the Air Quality Index of Delhi Region using LSTM and RNN architectures and Tensorflow, Keras and Python libraries.

### Delhi Technological University

*Undergraduate Research Assistant*

New Delhi, India

Aug 2019 - Present

- Created a Software Bug Predictor that analyses Java based projects and collects data from GitHub repositories, classifying information in Java CKJM metrics. Tested on over 10 repositories, totaling over 20k commits.
- Conducted research and development and wrote scripts in Python for data collection, manipulation, and machine learning models used in prediction, reducing development time by up to 20%.
- Built a front-end using Electron on Linux/Unix environment, that runs on most platforms.

## PROJECTS

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- **Handwriting Recognition System for Medical Prescriptions:** Collaborated on a project using deep learning techniques with Python to train 10,000s of data points extracted from doctor's prescriptions. Developing an artificial intelligence system to read the prescriptions and convert them into textual descriptions.
- **Image Caption Generator:** Developed an image caption generator that generates captions for the provided image. Used CNN's as encoders to extract features from the image and RNN's as decoders to do language modeling.
- **Automatic Speech Recognition:** Built a deep neural network from scratch that functions as part of an end-to-end automatic speech recognition (ASR) pipeline. The model converts raw audio into feature representations, which will then turn them into transcribed text.

## TECHNICAL SKILLS

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**Languages:** C++, Java, Python, SQL

**Technologies:** Machine Learning, Deep Learning, Natural Language Processing, Git, PyTorch, Android Development

**Soft Skills:** Public Speaking, Collaboration, Leadership

## ACHIEVEMENTS

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- **Associate Android Developer - Google:** One of the 2600 developers around the globe who passed this certification, testing on various skills like Software Development, Debugging, Testing, Building User Interfaces, etc.
- **Facebook Udacity Scholar:** Selected as top 4% among 8000 global applicants. Selected in the top 10% for a Deep Reinforcement Learning Program. Selection skills included being innovative, productive and quick learning.
- **Event Head - Indian Game Theory Society DTU:** Led an organization of more than 10 events promoting game theory at over 7 Tier-I institutes in India.

## COURSEWORK

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**Computer Science Theory Courses:** Data Structures and Algorithms, Discrete Mathematics, Software Engineering, Computer Architecture, Operating Systems, Machine Learning, Databases, Compiler Design, Computer Networking, Object-Oriented Programming, Object Oriented Design, Software Engineering, TCP/IP fundamentals

**MOOCs :** Machine Learning by Stanford, Deep Learning Nanodegree, Android Developer Nanodegree, Data Structures and Algorithms, System Design fundamentals