

# AYUSH AGARWAL

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Noida, India

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## EXPERIENCE

### Summer Intern

#### Indian Institute of Technology Bombay

May 2019 – July 2019

Mumbai, India

- Developed a Data Analytics Pipeline of Natural Language Processing and Deep Learning based text classifiers for processing the Chats and Mentor Interaction Videos of A-VIEW System. Transfer Learning of DeepSpeech Speech-to-Text model on Indian Accent data was also an integral part of the process. (Team Size: 5)

### Project Developer

#### Drexel University, Philadelphia (Indo-US Outsourced Project)

October 2018 – November 2018

- Developed a Chatbot using IBM Watson to simulate the chatflow of a debt collection agency, and integrated it to a Node.js web application. Chats were saved in a NoSQL database, which were later used for sentiment analysis to improve the Chatbot. Tableau was used to create insightful visualizations. (Team Size: 3)

### Software Development Intern

#### Amity Innovation Incubator

September 2018 – October 2018

Noida, India

- Worked on automating the manual task of managing database by developing a Content Management System (CMS) using Angular and Firebase. The built application was enabled to perform all necessary CRUD operations based on data and requirements. (Team Size: 2)

## PROJECTS

### Data Science & Machine Learning Mini Projects

- Fine Tuning DeepSpeech Model on Virtual Machine
- Keyword Extraction, Topic Classification and Sentiment Analysis
- Handwritten Digit Recognition (MNIST Dataset), Crime Data Analysis, Disease-Symptom Mapping, Weather Pattern Analysis

### FitSolution

#### Web Application to simulate Stock Trading Process

- A Flask based financial web application which allows a user to virtually trade stocks, in order to gain familiarity with financial markets. The application uses real-time APIs to fetch stock data. Charts and Graphs are used for additional interactivity. PostgreSQL database is used at the backend to save transactions and user data.

## ACHIEVEMENTS

- 100% Scholarship**  
Received full tuition fee waiver for bachelor degree on the basis of continued academic merit. (Approximate Amount: 900000 INR)
- Among Top 5 rank holders**  
Currently ranked in top 5 students of the Computer Science & Engineering department out of nearly 700 students.

## EDUCATION

### B.Tech in Computer Science & Engg.

#### Amity University, Noida

July 2016 – May 2020

Current CGPA: 9.54/10

### 12th (Intermediate) - CBSE

#### G.R.M. Senior Secondary School, Bareilly

2016

Percentage - 93.6

## ADDITIONAL COURSES

### Applied Data Science in Python

#### University of Michigan on Coursera

- Introduction to Data Science in Python
- Plotting, Charting and Representation
- Applied Machine Learning in Python

### CS50: Introduction to Computer Science (Harvard University on EdX)

### MongoDB Basics & MongoDB for Python Developers (MongoDB University)

## SKILLS & STRENGTHS

Python C/C++ Java SQL/NoSQL  
Node.js HTML/CSS Flask (Python)  
Linux Data Structure and Algorithms  
Git DBMS NLP(nltk) Data Science  
Machine Learning (Scikit-Learn, Pandas)

Hard Worker Motivator Observant  
Quick Learner Team Player

## HOBBIES

- Singing & Dancing
- Playing Guitar
- Reading

## LANGUAGES

- English
- Hindi
- French (Basic)