

# Atharv Ganla

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## EDUCATION

**MIT World Peace University**, Pune, India

2022

B.Tech in Computer Science Engineering

Related Courses: Data Structures, Database Management Systems, Artificial Intelligence, Python

## TECHNICAL KNOWLEDGE

- Programming Languages and Databases : Python | MySQL | C++ | HTML | Java | MongoDB | Firebase | Arduino
- Tools & Libraries : Github | Scikit | TensorFlow | Flask | OpenCV | Numpy | Pandas
- Software Knowledge : Figma and Adobe XD, Microsoft Office Suite (Word, Powerpoint, and Excel), Wix

## WORK EXPERIENCE

**AlgoAnalytics Pvt. Ltd.**, Pune, MH, India

September 2021 - February 2022

Machine Learning Intern

- Wrote web crawling scripts using APIs (Scrapy, Tweepy, and PyGoogleNews) to gather news articles from reputed sources in the world of finance for the project "FABRIC: AI-based Finance Research Assistant" (accuracy - 93.2%)
- Analyzed the datasets provided by NTT Data, a Japan-based company. Compiled, annotated, and categorized around 1200 texts under Social, Governmental, and Environmental categories as part of the Data Annotation project

**HyperDimensions Pvt. Ltd.**, Pune, MH, India

March 2021 - June 2021

Software Developer Intern

- Conducted research for brain-computer interaction and was part of a team of 4 interns to create an EEG recording cap and design an electronic amplifier circuit to record and observe brainwave activity
- Led and managed two project teams: the Home Automation System team and the Hospital Bed Management team
- Constructed backend database in MySQL and APIs in Flask to support a Flutter-based mobile application along with basic server-side scripting for Raspberry Pi, for both the above-mentioned projects

## PROJECTS

**MIT-WPU**, Neuroprosthetics - Application of Brain-Computer Interaction

July 2021 - September 2021

- Presented a seminar on the topic, explained various methods of recording and measuring brain waves, and listed the ML algorithms for proper classification of brain signals

**Innovators Hub**, Humidity Forecasting

April 2021 - May 2021

- Developed a model to forecast relative and absolute humidity using XGBoost (Accuracy for absolute humidity forecasting: 96.439) and FCNN (Accuracy for absolute humidity forecasting: 96.655)
- Deployed both models in a combination to devise an Ensemble Method, yielding higher accuracy of 96.77% for Relative Humidity and 97.66% for Absolute Humidity
- Presented a paper, titled 'Using Ensemble Method to Forecast Relative and Absolute Humidity' at the International Conference on Computational Intelligence and Digital Technologies (ICCIDT – 2021) and was published in the International Journal of Engineering, Research, and Technology (IJERT) (ISSN: 2278-0181)

**Innovators Hub**, FIN - Friend In Need, A helpline app

January 2020 - March 2020

- Built "Friend In Need"; An application for catering to the needs of Domestic Violence victims and to help communicate instantly with the two necessary authorities, the hospital & the police, along with NGOs nearby

**Innovators Hub**, iTraffic - Smart Time Management System

August 2019 - November 2019

- Designed iTraffic - A real-time system to manipulate the duration of each traffic signal in a junction based on the density of the incoming traffic; measured via OpenCV giving an accuracy of 95.7%

## ACCOMPLISHMENTS

- Awarded the Special Mention Award at HackTatva 2020 hosted by Manipal Institute of Technology, March 2020
- Won the Runner's Up prize at Technoxian Innovation Contest, in September 2019
- Bagged the Second Runner Up at Codex, a competitive coding contest held at MIT World Peace University
- Spearheaded and supervised the Computer Science Department at Innovators Hub - Student Club at MIT-WPU

## TRAINING

- Currently enrolled in an Executive PG Programme in Machine Learning and AI offered by IIIT Bangalore
- Completed 3 courses offered on Udemy: "Machine Learning A-Z™", "100 Days of Code: The Complete Python Pro Bootcamp", and "The Complete Android Oreo Developer Course"