**VEDANT SAHAI**

302 Maheshwari CHSL, Plot-80 +91 9969863873 [vedantsahai18.github.io](https://vedantsahai18.github.io/)

Gorai-2, Borivali-W vedantsahai18@gmail.com[linkedin.com/in/vedantsahai18](https://www.linkedin.com/in/vedantsahai18/)

Mumbai-400092, India

**Objective**: Highly driven undergraduate computer engineer seeking opportunities where I can expedite my knowledge of AI and Blockchain to help my nation and humanity as a whole.

**EDUCATIONAL QUALIFICATIONS:**

**B.E Computer Engineering |** Fr. Conceicao Rodrigues College of Engineering  **2017-2021**

* Current standing CGPA – 9.41 (On a scale of 10)

**12th Grade |** Higher Secondary Certificate (HSC) - 82.33% 2017

**10th Grade |** Indian Certificate of Secondary Education (ICSE) - 92.33% 2015

**EXPERIENCE:**

* **Artificial Intelligence Research** *(July 2020 – Present)* at ***Sync Energy Inc, New York, USA***

(yet to complete the internship)

* **Software Developer** *(Jun 2019 – July 2019)* at ***Mumbai International Airport Ltd (CSMIA), Mumbai, India***

***Completed*** three projects which had to be completed for two months which are as follows:

* ***Integration of Airside Safety Management Application (ASMA)*** with ***Incident Monitoring System (IMS).***
* Integration of ***Payment Module with the KIOSK***.
* Establishing a communication link between the ***ATS*** and the ***Flight Feed Sever.***
* **Intern** *(June 2018-March 2019)* at ***Mavericks UAS, Fr. Conceicao Rodrigues College of Engineering, Mumbai, India***

***Constructed*** and ***Programmed*** autonomous ***hexacopter*** and ***quadcopter*** with ***obstacle detection*** & ***avoidance***, ***self-navigation*** and ***payload handling capabilities***.

**PROJECTS:**

* **Medical Analytica (April 2020 -Present)**

A therapy-based chat-bot for emotion analysis and visualization. We have developed a chat companion to make the user feel better and to track analysis of the user’s behaviour

* **Leveraging Conversational AI for Secure Healthcare Assistance (Mar 2020 – Present)**

When hospitals are understaffed to maintain healthcare data, they are prone to error. We have attempted to develop an end to end system decentralized application for successful storage, transfer and tracking of patient healthcare data

* **COVID19 Face Mask Detection and Facial Recognition (May 2020 - Present)**

Face Mask Detection system built with OpenCV, Keras/TensorFlow using Deep Learning and Computer Vision concepts to detect face and recognize the faces in real-time

* **Deepfakes with Keras-GANs (May 2020 - Jun 2020)**

The project is based on a systematic approach to learning DCGAN or Deep Convolutional Generative Adversarial Network and trained the network to generate realistic-looking synthesized images

* **Sentiment Analysis with Deep Learning using BERT & PyTorch (May 2020 - Jun 2020)**

The project is based on a systematic approach to learning analyzing datasets for sentiment analysis, how to read it in a PyTorch BERT model and adjust the architecture for multi-class classification. I built a Sentiment Analysis model leveraging BERT's knowledge

* **Attentiveness and Attendance Detection Problem (Aug 2019 - Dec 2019)**

Built an end-to-end architectural system that incorporates human pose estimator, emotion recognition and head gaze deep learning model into a customized neural network Intelligent Classrooms

* **Context Classification from audio conversations (Jul 2019 - Oct 2019)**

The project is based on a systematic approach to convert a voice-based conversation between a customer and service centre and find out the context of the conversation and classify it accordingly

* **Web-App for Presenting Obstacles Around an Aerodrome Using Google Earth Pro & HereMaps API (Feb 2019 - Apr 2019)**

Records of all the obstacles such as the trees, buildings, hoardings, towers etc., located around an airport’s aerodrome are maintained in AD 2.10 section of the AIP documentation which is published on the Airport Authority of India's. Through this system, one can plot these obstacles in 2D and 3D objects on Google Earth Pro (3D) and HereMaps (2D)

* **Classification of skin diseases using Convolution Neural (May 2019 - Jul 2019)**

The project is based on a systematic approach to learning Neural Network-based algorithms based on which I tried to explore the field of Data Science. The project involved the classification of skin diseases based on images clicked by the user

**PUBLICATIONS:**

* M. Mehra, Vedant Sahai, P. Chowdhury and E. Dsouza, "Home Security System using IOT and AWS Cloud Services," *2019 International Conference on Advances in Computing, Communication and Control (ICAC3)*, Mumbai, India, 2019, pp. 1-6, DOI: 10.1109/ICAC347590.2019.9089839.

**ACHIEVEMENTS:**

* *Conducted a workshop* on **“Introduction to Arduino”** with Team Mavericks UAS at Fr. Conceicao Rodrigues College of Engineering *(1 Sept. 2018)*
* Conducted Workshop on **“Deep Learning”** by Shaunk de with Team Mavericks UAS at Fr. Conceicao Rodrigues College of Engineering *(8 Sept. 2018)*
* **Runner-Up** in *Techno Talks 2018 competition at Fr. Conceicao Rodrigues College of Engineering, Mumbai (Match 2018)*
* **Winner** of Smart *India Hackathon 2019 software edition (March 2019)*
* Secured **5th position** at *India Singapore Hackathon 2019 (September 2019)*
* Secured **4th position** at *AI Hackathon 2019* *(September 2019)*

**ACADEMIC ACTIVITIES:**

* Over two years of **undergraduate research experience** in Deep Learning, NLP and Computer Vision
* **Technical Editor** at Fr. Conceicao Rodrigues College of Engineering college *magazine “Fragmag-2018”*
* **Conducted** numerous **workshops** in association with **Team Mavericks UAS** (Autonomy Club at Fr. Conceicao Rodrigues College of Engineering)
* **Participated** in various **Local**, **National** and **International** **Hackathons**
* **Active** **participation** in College level activities like **Dance**, **Intra-Tournaments** & **Social Services**

**TRAINING & CERTIFICATIONS:**

* **“Machine Learning and AI using Python”** training conducted by ATS Learning Solution in association with Microsoft *(August 2019)*
* **“Blockchain A-Z™: Learn How to Build Your First Blockchain”** *(January 2020)* and **“Machine**

**Learning A-Z: Hands-on Python & R In Data Science”** *(April 2020)* by *Udemy*

* **“Deep Learning Using TensorFlow”** by *CognitiveClass.ai (April 2020)*
* **“JP Morgan Software Engineering Virtual Experience”** by *InsideSherpa* *(May 2020)*
* **“AI for Everyone”** & **“Deep Learning Specialization”** by *deeplearning*.ai *(April-May 2020)*
* **“AWS Fundamentals: Going Cloud-Native”**, **“AWS Fundamentals: Migrating to the Cloud”** & **“AWS Fundamentals: Building Serverless Applications”** by *Coursera (April-May 2020)*

**TECHNICAL SKILLS:**

* Languages comfortable in **C, Java, JavaScript, Python, HTML, CSS**
* Practical Experience in **IoT, Deep Learning, Natural Language Processing** and **Computer Vision**
* Adept in **UAV systems & its construction** and **Server Programming.**
* Adept at **problem area identification, planning** & **implementation** and **Linux Systems**
* Practical Experience in **Blockchain**, **AWS**, **Docker**, **Knowledge** **Graphs, APIs** and **Databases**
* Research skills such as **technical writing, paper presentation and problem-solving**

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