**VEDANT SAHAI**

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**My Vision**: -Our generation is the one who will be shaping the world. It is up to us to reshape the earth and help humanity to achieve its prime goal. Believe in my work and invest in me and I won't let you down.

**EDUCATIONAL QUALIFICATIONS:**

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| **Sr. No.** | **Particulars** | **Name of the Institute** | **Year** | **%/CGPA** |
| 1 | I.C.S. E | Thakur International School | 2014-2015 | 93 |
| 2 | H.S.C | Nirmala College of Science & Commerce | 2016-2017 | 83 |
| 3 | BE (Comp Engr) | Fr. Conceicao Rodrigues College of Engineering | Sem5 - student | 9.41 |

**ACADEMIC ACTIVITIES:**

* Technical Editor for Fr CRCE college magazine “Fragmag-2018.”
* Conducted workshop on “Deep Learning” by Shaunk de for TEs and on “Introduction to Arduino” for the FEs at Fr CRCE in the year 2018.

**ACHIEVEMENTS:**

* Runner up of “Techno Talks” competition held during technical fest ‘Crescendo’ in the year 2018 at Fr.CRCE, Mumbai.
* Team Leader and Winner of Smart India Hackathon 2019 software edition, conducted by MHRD, Gov. of India, at Chennai.
* Secured 5th position at India Singapore Hackathon 2019, conducted by MHRD, Govt. of India and Govt. of Singapore, at Chennai.
* Secured 4th position at AI Hackathon, conducted by Tata Motors and Symbiosis Institute of Technology, Pune.

**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.

**TECHNICAL SKILLS:**

* Programming skills in C, Python, JAVA, JavaScript, HTML5, CSS, Bootstrap.
* Good knowledge of Machine Learning, Deep Learning, NLP, Blockchain, Docker and Image Processing.

**TRAINING & CERTIFICATIONS:**

* Machine Learning and AI using Python training conducted by ATS Learning Solution in association with Microsoft.
* Blockchain A-Z™: Learn How to Build Your First Blockchain and Machine Learning A-Z: Hands-on Python & R in Data Science by Udemy.
* Deep Learning Using TensorFlow by CognitiveClass.ai and JP Morgan Software Engineering Virtual Experience by InsideSherpa.

##### AI for Everyone, Deep Learning Specialization, AWS Fundamentals: Going Cloud-Native, AWS Fundamentals: Migrating to the Cloud and AWS Fundamentals: Building Serverless Applications by Coursera

**EXPERIENCE:**

* Artificial Intelligence Intern (July 2019 – Present) at Sync Energy Inc, New York, USA
* Software Developer Intern (Jun 2019 – July 2019) at Mumbai International Airport Ltd (CSMIA)
* Intern (June 2018- March 2019) at Mavericks UAS of Fr.CRCE, a technical team that working on the development of drones and other aerial vehicles

**PROJECTS:**

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

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

* **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.

* **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.

* **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.

* **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

* **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.

* **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.

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

Records of all the obstacle 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).

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