**Vedanth Padigelwar**

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**SUMMARY**

Motivated Machine Learning Engineer with an in-depth knowledge of designing, developing and deploying models using python, keras, Tensorflow, Pytorch, Docker and optimizing algorithms for the best performance possible. Researched and tested new technologies to support the growth of the business and Collaborated with key project stakeholders to ensure that essential goals were met. AWS Certified Machine Learning Specialist with model [optimisation](https://www.linkedin.com/feed/hashtag/?keywords=optimisation&highlightedUpdateUrns=urn%3Ali%3Aactivity%3A6813461860403159041) knowledge and also [Production deployment](https://www.linkedin.com/feed/hashtag/?keywords=production_deployment&highlightedUpdateUrns=urn%3Ali%3Aactivity%3A6813461860403159041) methodologies

**WORK EXPERIENCE**

**Omdena |** Machine Learning Engineer **New York, United States |** May 2021 - Jul 2021

* Worked on understanding problem statements and developing models for goFintel- NEXT Generation platform. Under the framework of the UN Office of Counter Terrorism “UNOCT-UNCCT Global coordinated programme on detecting, preventing and countering the financing of terrorism”
* As a team leader made sure to work towards the business goals by devising a ML pipeline for the project to handling imbalanced data with SMOTE or tuning ‘scale\_pos\_weight’ parameter, Performed EDA to extract important insights to correlate data from financial, criminal activities, and other records to identify and counter the financing of terrorism.
* Developed models to predict a suspicious transaction using XGBoost and achieved F1 score of 0.875 and fuzzy c-means model to understand unlabeled data.

**Mehta Heino Industry |** Software Developer **Finland |** Oct 2020 - Mar 2021

* Designed and developed a user-friendly portal using VUE JS to control 3D-printers with Gcode files which can help customers to improve revenue by 10% .
* Planned a 1 year timeline of projects for the software division. Lead project meetings with the CEO, CTO, and customers to understand customer requirements and convert them into project deliverables.
* Built the interface from scratch using Vuetify and handled printer data communication between open-sourced RepRap firmware and the front end using Vuex to handle state management, props and eventbus for variable updation. Enhanced printer data retention functionality by creating a local database to track user print logs

**Cognizant |** Program Analyst Trainee **Chennai |** Jul 2020 - Oct 2020

* I received training on full-stack development using HTML, CSS, JS, C#, .NET technologies with MVC architecture.

**MIRAASH Engineering & Technology |** Research Intern **Delhi |** Jul 2020 - Aug 2020

* We have developed a cloud kitchen safety classifier using computer vision. It helps to classify a safe wash from a regular wash and warns and guides unsafe washes to a complete safety wash.
* We developed a model to classify a safe wash using transfer learning, PyTorch, and various standard models Inception V3, ResNet, VGG, ALexNet, and achieved an accuracy of 89%.

**Aalto University |** Researcher  **Finland |** Mar 2020 - Sep 2020

* Collected EEG and fMRI information to model relationships between data to predict fMRI brain neural activity localisations using EEG field potential data.
* Performed EDA to understand localised data, Extracted Pearson correlation between fMRI image data and time-series EEG data based on brain location into α, β, γ, δ frequency ranges.

**Lokahitam Techno Solutions |** Internship  **Finland |** Apr 2019 - May 2019

* Designed, developed and deployed a google Dialogflow chatbot to help parents of autism-affected children to find useful resources and information with the required cities.
* Created a knowledge resource of useful resources available in various cities for Autism by scraping websites. Planned and built Intenets, Entities and a flow of chatbots support conversations for sharing relevant information and are deployed with Telegram and Messenger.

**PROJECTS**

**Applying ML and DL algorithms on encrypted data using CryptoNets** Sep 2019 - Mar 2020

* Objective: Applying DL models on encrypted data using CryptoNets.
* Tools and Techniques:homomorphic encryption,CNN.

**Food Monitoring System using IOT** Jun 2019 - Oct 2019

* Objective: creating a food monitoring system using various sensors and suggesting
* Tools and Techniques:Gas, LDR, PH, DHT11, LED sensors, WIFI module, Arduino Uno.

**Detecting Plastic in images and videos** Jul 2019 - Sep 2019

* Objective:Identifying plastic presence in the environment using images and videos
* Tools and Techniques: using CNN Techniques.

**EDUCATION**

**Aalto University** **Espoo**

*Masters in Computer, Communication, and Technology ( Bachelors exchange program) 2020*

**GPA:** 4.28 / 5

**Relevant Coursework:** Deep Learning, Artificial Intelligence, ML with python, Information Visualisation

**Organizations:** Startup Sauna, Erasmus Student Network, Hyde & Teepakki

**Amrita Vishwa Vidyapeetham** **Coimbatore**

*Bachelors of Technology in Computer Science and Engineering 2016 - 2020*

**GPA:** 8.22 / 10

**Relevant Coursework:** Neural Networks, Big Data Analytics, Pattern Recognition, Information retrieval

**Organizations:** Anokha, NSS, ASCII club, ACE club, t{know}, CORE LAB

**Leadership:** Technical Head of CSE department for Anokha, Team leader SIH team, ASCII club office bearer, Co-Head - Entrepreneurship Programmes, Sports Captain of CSE Department, NSS Coordinator, Gokulashtami Overall coordinator for CSE Department

**CERTIFICATIONS & ACHIEVEMENTS**

**Certifications:**

* AWS Certified Machine Learning - Specialty (2021) [Validation Number: YYDCHYNBD2REQQG0]
* AWS Certified Solution Architect(2021) [Validation Number: P90V7BYJ1FE41YKV]
* AWS Certified Cloud Practitioner(2019) [Validation Number: 62YH65N2CM111QKW]
* Machine Learning Andrew Ng
* CS231n: Convolutional Neural Networks for Visual Recognition by Stanford University

**Achievements:**

* 25% Amrita Nidhi scholarship for Bachelors.
* Team leader and placed one among the top 10 teams in Smart India Hackathon, 2018
* Secured 6th position in a National level competition for Management Skills by SPJIMR, Mumbai

**SKILLS & INTERESTS**

**Programming Languages:** *Experienced:* Python, SQL, VueJS, HTML, CSS, Javascript *Familiar:* Java, C, C++

**Frameworks & Libraries:** Numpy, Pandas, Scikit-learn, Keras, PyTorch, Tensorflow 2

**Other Technologies:** AWS, GIT, Linux, Docker

**Languages:** *Fluent:* English, *Native:* Telugu, *Intermediate:* Hindi

**Interests:** Deep Learning, IoT, Computer Vision, Entrepreneurship, Traveling, Sports, Food, Photography.