Education

BITS Pilani, K K Birla Goa Campus

Goa, India

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE, CGPA: 9.05/10

Aug 2018 - expected May 2022

Pace Junior Science College, Borivali, Mumbai

CLASS 12TH: 94.77 %

Maharashtra, India

March 2017 - April 2018

Pawar Public School, Mumbai

CLASS 10TH: 95.50 %

Maharashtra, India

April 2015 - April 2016

Work Experience _____

Microsoft India (R&D)

(Remote)

SOFTWARE ENGINEER INTERN

May 2020 - July 2020

- · Worked on the project Carbon Dashboard which provides granular insights and analysis of carbon emissions across buildings.
- Developed a Time Series Model using Machine Learning to predict the attendance of people, to allow better planning, reducing the wastage
 of resources and carbon emission.
- Used features like **trend**, **seasonality** and **correlation** for tuning the model and interfaced the result and metrics on PowerBI dashboard. Tech stack used: PySpark, **Python**, **SQL**, **Databricks**, **PowerBI** and **Azure services**.
- The project achieved 2nd place globally in the domain Hack for Sustainability at the Microsoft Global Hackathon 2020.

Projects_____

Machine Learning Algorithms for Structural Health Monitoring

SUPERVISOR: DR. KOTA SOLOMON RAJU & DR. GAURAV PUROHIT, CSIR-CEERI, PILANI | GITHUB LINK

May 2020- Jun 2020

- Built **deep learning models** for Monitoring the Health of Building Structures which allows keeping track of structural damage using features like interstory drift ratio and data from accelerometer signals.
- Used CNNs on simulated accelerometer data for classifying structural state based on damage with an accuracy of 85.11%.
- This can help address vulnerable structures and prevent the loss of life and property after a natural disaster.

Modelling The Cognitive Functions of Consumer Behaviour

SUPERVISOR: PROF. BHARAT DESHPANDE, BITS PILANI, K K BIRLA GOA CAMPUS | GITHUB LINK

Jan 2020 - Jun 2020

- · This project aims to predict consumer behaviour using brain wave measurement technology and and machine learning.
- Processed the collected brain data-**EEG** signals using **MATLAB** EEGlab toolkit.
- Developed a Machine Learning Model in Python to predict consumer behaviour using classification algorithms like K- Nearest Neighbors and Random Forest on the processed EEG data.

Markov Chain Model For Natural Language

GITHUB LINK June 2019

- · Used a Markov Chain to create probability distribution of each successive letter depending on the preceding letters for a piece of English text.
- Simulated Markov chain to generate pseudo-random text in **Java** from this probabilistic distribution.

Teaching Experience _____

Discrete Structures for Computer Science, CSF222

TEACHING ASSISTANT, BITS PILANI, K K BIRLA GOA CAMPUS

Sep 2020-Ongoing

· Assisting with developing solution set for assignments and supervision during evaluative components

Introduction to Computer Programming, CSF111

TEACHING ASSISTANT, BITS PILANI, K K BIRLA GOA CAMPUS

Jan 2020 - May 2020

- Helped first-year students by solving their doubts during weekly C programming labs.
- Set up coding questions for evaluative labs.

Accomplishments_____

2020

Coursework

- Computer Science: Data Structures and Algorithms, Database Management Systems, Object-Oriented Programming in Java, Logic in Computer Science, Discrete Structures of Computer Science, Digital Design, Introduction to Computer Science COS 126 (By Princeton University), Network Management (By Nettech Private Limited), Theory of Computation*, Operating Systems*, Principles of Programming Language*, Computer Architecture*.
- Machine Learning and Deep Learning: Machine Learning (by Stanford University), Sequences-Time Series and Prediction (By deeplearning.ai), Convolutional Neural Networks, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring Machine Learning Projects, Neural Networks and Deep Learning, Sequence Models (By deeplearning.ai), Deep Learning Specialization(By deeplearning.ai)
- * = Ongoing

Skills

Languages: C++, Python, C, Java, SQL, MATLAB

Libraries and Frameworks: TensorFlow, PyTorch, Keras, PySpark, NumPy, Pandas, Scikit-Learn

Volunteering Experience

Women in Machine Learning and Data Science, Goa chapter

CAMPUS REPRESENTATIVE

June 2020 - Ongoing

• Organizing events and workshops related to Machine Learning and Data Science and encouraging campus enthusiasts to participate in the same.

Peer Mentorship Programme BITS Pilani, Goa Campus

MENTOR Aug 2019 - May 2020

- Mentored a group of eight first-year students to adjust with college life routine.
- · Held discussions to provide guidance in studying first-year courses and managing extra-curricular activities.