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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

Maharashtra, India

March 2017 - April 2018

CLASS 12TH: 94.77 %

Coursework

Relevant Coursework: Object Oriented Programming, Discrete Structures in Computer Science, Data Structure and Algorithms, Database Management Systems, Machine Learning, Convolutional Neural Networks, Sequence Models, Probability and Statistics, Linear Algebra, Operating Systems*, Computer Architecture*, Cognitive Neuroscience*.

* = Ongoing

Work Experience _____

Microsoft India (R&D)

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**.

CSIR - Central Electronics Engineering ResearchInstitute (CEERI), Pilani

RESEARCH INTERN May 2020 - June 2020

- Built deep learning models for Structural Health Monitoring-Damage Classification using features like inter-story drift ratio
- Used **CNNs** on simulated accelerometer signals for classifying structural state based on damage, helping address vulnerable structures in the aftermath of a natural event. Worked using **Python** and **TensorFlow**.
- This project was done under the guidance of Dr Kota Solomon Raju and Dr Gaurav Purohit, CSIR Central Electronics Engineering Research Institute (CEERI), Pilani

Projects

Modelling The Cognitive Functions of Consumer Behaviour

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

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

GITHUR

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 **2nd Place**, Hack for Sustanability, Microsoft Global Hackathon

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

ENTOR 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.