

Vishwa Shah

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Education

BITS Pilani, K K Birla Goa Campus

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE

• CGPA: 9.05/10

Goa, India

Aug 2018 - Present

Pace Junior Science College, Borivali, Mumbai

CLASS 12TH: 94.77 %

Maharashtra, India

March 2017 - April 2018

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 Research Institute (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 | [GitHub](#)
- 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 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](#)

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.

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

Accomplishments

2020 **2nd Place**, Hack for Sustainability, 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

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.

Committees

2020 **Core Member**, Society of Artificial Intelligence and Deep Learning

Goa, India

2019 **Core Member**, Alumni Relations Cell, BITS Pilani, K K Birla Goa Campus

Goa, India