

# 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

HIGHER SECONDARY CERTIFICATE (CLASS 12) : 94.77 %

Maharashtra, India

March 2017 - April 2018

### Pawar Public School, Kandivali, Mumbai

ICSE (CLASS 10): 95.50 %

Maharashtra, India

April 2015 - April 2016

## 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 | [REPORT](#)

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.

## Courses

**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\*, Natural Language Processing\*.

**Certification:** Deep Learning Specialization (certificate)

\* = Ongoing

## 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

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2020    **2nd Place**, Hack for Sustainability, Microsoft Global Hackathon - July 2020

## Skills

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

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

## Volunteering Experience

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### 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

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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*