

# VISHWA VIPULKUMAR SHAH

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## EDUCATION

BITS Pilani, K.K. Birla Goa Campus  
**Bachelor of Engineering in Computer Science**

📅 August 2018 – Ongoing    📍 Goa, India  
CGPA: 9.05/10

## EXPERIENCE

Software Engineer Intern

**Microsoft India(R&D)**

📅 May 2020 - July 2020

Worked on the project **Carbon Dashboard** which allows tracking of Carbon Emissions. Built a **Time Series Machine Learning Model** to predict people count avoiding wastage of resources, reducing carbon emission. Worked using **PySpark, Python, SQL, Databricks, PowerBI** and **Azure services**.

Research Intern

**CSIR-Central Electronics Engineering Research Institute(CEERI), Pilani**

📅 May 2020 - June 2020

Built deep learning models for **Structural Health Monitoring**-Damage Classification using features like interstory drift. 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](#)

## PROJECTS

Modeling Cognitive Functions of Consumer Behavior

📅 Jan 2020- June 2020

- This project aims to predict consumer behaviour using brain wave measurement technology and machine learning. Processed the collected brain data EEG signals. Developed a Machine Learning Model to predict consumer behaviour using classification algorithms like K Nearest Neighbors and Random Forest on the EEG data.
- Tech stack Used: MATLAB,Python
- Supervisor: Prof. Bharat Deshpande
- [GitHub](#)

Markov Model Of Natural Language

📅 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 from this probabilistic distribution.
- Tech stack Used: Java
- [GitHub](#)

## SKILLS

**Programming:** C++, Python, C, Java, SQL, MATLAB

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

## COURSES

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

## TEACHING EXPERIENCE

Teaching Assistant CSF222

**BITS Pilani, K K Birla Goa Campus**

📅 Sep 2020 - Ongoing

Teaching assistant for Discrete Structures for Computer Science. Assisting with developing solution set for assignments and supervision during evaluative components

Teaching Assistant CSF111

**BITS Pilani, K K Birla Goa Campus**

📅 Jan 2020 - May 2020

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

## ACHIEVEMENTS

- Worked on the project Carbon Dashboard which won 2nd place globally in the domain Hack for Sustainability at the Microsoft Global Hackathon 2020.

## VOLUNTEERING

- **Campus Representative:** *Women in Machine Learning and Data Science*, Goa chapter (June 2020 - Ongoing)
- **Mentor:** *Peer Mentorship Program*, BITS Goa (Aug 2019 - May 2020)