VISHWA VIPULKUMAR SHAH

@ vishwayvs@gmail.com   📞 +91 8369270547   🔗 vishwa27yvs.github.io   📍 Location, India
in linkedin.com/in/vishwa-shah-240055171   🐙 vishwa27yvs

EDUCATION

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

📅 August 2018 – Ongoing   📍 Goa, India

CGPA: 8.82/10

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 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)