



Mihir Pavuskar

A-403, Konkar's Nest, Near Agali
Estate, Agali
Margao, Goa

9420897121
pavuskarmihir@gmail.com
[GitHub](#)
[LinkedIn](#)
[Personal Website](#)

ABOUT ME

Current student enrolled in Vellore Institute of Technology pursuing Bachelors in Computer Science and Engineering Program with hands-on experience gained through student-centric, growth-oriented internships. Want to pursue fields like Data Science, Machine Learning, and Computer Vision and develop bleeding-edge technologies.

PROJECTS

MASTER GESTURE

- A hand gesture-based mouse control and swipe gesture-based text input system.
- OpenCV, Tensorflow, XGBoost, ReactJS

SMART CHECKOUT SYSTEM

- A smart checkout system inspired by the Amazon Go store, coupled with inventory management and a sales prediction system.
- LSTM, ReactJS, NodeJS, Docker

COVID VISUALIZER

- A COVID data visualization dashboard that presented the information in several different graphical formats gave us a deeper insight into the spread of the virus.
- Pandas, Plotly, Plotly-Dash

SEE-FOOD

- Shazam for Food, can identify and classify up to 500 dishes using uploaded or live pictures
- Tensorflow, TFJS, ReactJS, OpenCV

SQL to NOSQL DB CONVERTER

- A tool to migrate for SQL databases such as MySQL, MSSQL and PostgreSQL to NoSQL databases such as MongoDB
- MySQL, MSSQL, PostgreSQL, MongoDB, NodeJS

EDUCATIONAL BACKGROUND

Bachelor's Degree in Computer Science and Engineering
Vellore Institute of Technology
Vellore, Tamil Nadu
05/2022
CGPA - 9.23

WORK HISTORY

Research Intern 07/2020 - 03/2021
Samsung PRISM - Vellore, Tamil Nadu

- Develop an Intelligent Text Normalization for ASR systems that would be used in SAMSUNG products in the future.
- Worked with advanced technologies such as BERT networks and XgBoost models.
- Were able to achieve 99.7% accuracy with the proposed model.

Lead React JS Developer 12/2019 - 05/2020
CamCann - Vellore, Tamil Nadu

- Developed projects such as Online Education Portal, Smart Advertisement System, and Smart Security Dashboard
- Led 4 interns

Lead Web Developer 10/2019 - 04/2020
Vorby - Vellore, Tamil Nadu

- Developed Student Aid Portal
- Led 2 Jr. Interns

SKILLS & PROFICIENCIES

- | | |
|-------------------|----------------------------------|
| • Deep Learning | • Machine Learning |
| • Data Science | • Data Visualization |
| • Computer Vision | • Natural Language Processing |
| • Big Data | • Data Structures and Algorithms |
| • Databases | • ReactJS |
| • Node.js | |

CERTIFICATIONS

Deep Learning Specialization

Coursera - Andrew Ng

The Deep Learning Specialization is a foundational program that will help you understand the capabilities, challenges, and consequences of deep learning and prepare you to participate in the development of leading-edge AI technology.

Python Data Visualization

Coursera - Rice University

This specialization is intended for beginners who would like to master essential data visualization skills.

AWS - Cloud Practitioner

Amazon Web Services

This credential helps organizations identify and develop talent with critical knowledge related to implementing cloud initiatives. Earning AWS Certified Cloud Practitioner validates cloud fluency and foundational AWS knowledge.

EXTRA-CURRICULAR

The Comedy Club, VIT

Co-Founder and Board Member

Jan 2019 - Dec 2019

Served as the Club Secretary and managed permissions as well as human resources. Organized multiple events both online and offline.

Red Cross, VIT

Club Member

Jul 2019 - May 2020

Participated in multiple online and offline events organized to raise awareness on social issues.

INTERESTS AND HOBBIES

- Comedy Sketches
- Stand-up Comedy
- Table Tennis
- Chess
- Reading
- Video Games

DECLARATION

I hereby declare that the information presented above is true to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars

Place: Margao

Mihir Mangesh Pavuskar

CURRENT RESEARCH

Hand-gesture swipe keyboard text input system

Hand gesture-based text input systems are inefficient and difficult for humans to execute. They require a lot of time to input simple texts or may even need the user to learn certain sign languages to interact with the system. To address these issues, we propose a hand gesture-based swipe keyboard system. This paper implements the said methodology and compares it with the existing prevalent technique of text input.

Slang Preprocessing Model

Preprocessing slang text is a major issue. Most of the models are pretrained on clean and preprocessed datasets which do not contain slang and spelling errors. Moreover, even training a new model from scratch is an issue when it comes to slang as most of the datasets do not contain them. This issue then ripples out to other natural language processing tasks such as sentiment analysis, ASR systems, text summarizers, etc. To deal with this issue we propose a slang preprocessing model which will preprocess the slang and spelling errors with appropriate replacement and correction algorithms. The output of this model can then be utilized in other NLP related applications.

Booster Based GAN Architectures

This paper sought to combine the power and efficiency of Boosting Algorithms such as XgBoost, CatBoost, etc. with the versatility of GAN Architectures to produce BoostingGANs, which will be efficient in analyzing tabular datasets.

LANGUAGES

- English - 9/10
- Hindi - 7/10
- Marathi - 7/10
- Konkani - 7/10
- French - 5/10
- Kannada - 3/10