

# Gaurav S. Untawale

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## Summary

I am currently pursuing a Bachelor of Technology degree in Computer Science and Engineering from MIT World Peace University, located in Pune. With a passion for mathematics and computer programming, I specialize in machine learning and natural language processing. Additionally, I am skilled in front-end web development and have contributed to the creation of several websites. My research has focused on brain-computer interfaces and their applications in the healthcare sector. With a strong foundation in programming languages like C++, Python, and MATLAB, Ruby, along with proficient skills in machine learning and deep learning, I am ready to take on new challenges and make a positive impact in the technology and statistical industries.

## Education

### Bachelors of Engineering in Computer Science | Present (7<sup>th</sup> Sem)

Dr. Vishwanath Karad MIT World Peace University | Pune, Maharashtra

CGPA – 8.93/10.00

### Secondary High School Graduate | June 2020

Rao Junior College of Science | Nagpur, Maharashtra

Percentage – 87.06/100

### High School Graduate | June 2018

Somalwar High School and Junior College | Nagpur, Maharashtra

Percentage – 98.00/100

## Technical Skills

**Programming Languages:** C++, Python, Django, SQL, MATLAB, Ruby

**Python Libraries:** Pandas, NumPy, TensorFlow, PyTorch, Scikit-Learn, Keras, Matplotlib, Scrapy, BeautifulSoup

**Web Technologies and Servers:** HTML5, Bootstrap5, ReactJS, NodeJS, Flask API

**Databases:** MySQL, MongoDB

**Virtualization:** Oracle Virtual Box, WSL

## Projects

### JobSync AI Bot : A solution to your Job Search

August 2023 - December 2023

**Skills:** AI Development, Natural Language Processing, Python, Web Development (ReactJS, Material-UI), Database Management (MongoDB), Data Analysis (Pandas, NumPy), Flask (Python Web Framework), UI/UX Design, Git Version Control,

**Mentor:** Dr. Siddhivinayak Kulkarni | **Team Size:** 3

**Project Link:** <https://github.com/Gaurav-1032201414/JobSyncAI.git>

- JobSync AI is a pioneering project that leverages artificial intelligence (AI) to revolutionize the job-search process.
- It combines real-time resume analysis, personalized job recommendations, and skill recognition to offer users a competitive edge in navigating the dynamic landscape of the workplace.

### Emotions and their corresponding Frequency Generation using BCI

January 2023 - May 2023

**Skills:** Python, MATLAB, Signal Processing, FFT, IBM SPSS Statistics, BCI, Bi-Directional BCI

**Mentor:** Prof. Yogesh Kulkarni | **Team Size:** 1

**Project Link:** [https://drive.google.com/drive/folders/1X1x5YEyvhAl8XU9h4sRLGB8kN1dX3qDr?usp=share\\_link](https://drive.google.com/drive/folders/1X1x5YEyvhAl8XU9h4sRLGB8kN1dX3qDr?usp=share_link)

- The project aims to investigate the neural mechanisms of emotions using Brain-Computer Interfaces (BCIs) and Bidirectional Brain-Computer Interfaces (BBCIs).
- Specifically, the project will focus on generating corresponding frequencies of emotions through EEG signal recognition, utilizing techniques such as Fast Fourier Transform and Machine Learning.

### ChatGPT3.5 with voice command Capabilities | Python, Django, Open-AI API, Machine learning/AI

February 2023 – May 2023

**Mentor:** Prof. Aparna Kamble | **Team size:** 5

**Project Link:** [https://drive.google.com/drive/folders/1f9HGAiHyKaPlak06nsSo2UbXhUPh41lt?usp=share\\_link](https://drive.google.com/drive/folders/1f9HGAiHyKaPlak06nsSo2UbXhUPh41lt?usp=share_link)

- Python libraries were utilized along with ChatGPT3.5 API in-order to design the AI.
- Machine learning algorithms were utilized to enhance the dataset used for the GPT3.5 design and working.
- Django was utilized for a basic GUI development.

## Publications

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### Urinary Incontinence using Machine Learning

30 March 2022

**Conference paper:** International Conference on Scientific Computing in Innovation (ICSCI 2022) | **No. of Authors:** 5

**Key Skills:** Machine Learning, Python, Data Analysis, Internet of Things, IBM SPSS Statistics, Electrical Impedance Tomography, Arduino UNO, Raspberry Pi.

- Urinary Incontinence is predominant among old-age and disabled individuals.
- Many therapy and management modalities have been developed but these techniques are manual in nature and need a substantial amount of time and effort.
- The proposed model focuses on automation of detection of possibility of urine sensation depending upon the daily life cycle of the user/patient.
- This helps in dealing with the sudden urination problems in public with a prior indication of the situation and helps in better and faster measures to get carried out.

## WEB LINKS

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- GitHub - <https://github.com/Gaurav-1032201414>
- GeeksForGeeks - <https://auth.geeksforgeeks.org/user/untawaleg5uol/practice>
- Hackerrank - <https://www.hackerrank.com/untawalegaurav20>
- Personal - <https://somthinbrainymachines.blogspot.com/2023/06/next-word-prediction-using-deep.html>