TEJAS SUNIL BHALE

Roll No.:210123066
B.Tech - MATHEMATICS AND COMPUTING
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	6.85 (Current)	2021-Present
Senior Secondary	Maharashtra HSC Board	87.5%	2020
Secondary	CBSE board	94.0%	2018

INTERNSHIPS

- **SkillVertex** *Jul. 2022 - Sep. 2022*
  Artificial Intelligence Internship Remote
  - Developed **Chatbot** utilizing **TensorFlow** and **NLTK** for **NLP**,engaging and interactive responses to user inquiries.
  - Constructed a robust **neural network** model with **TFLearn**, implementing both **bag-of-words** and **one-hot encoding**.
  - Utilized **Keras CNN** for **COVID-19 detection** from X-rays, incorporating advanced **data augmentation** techniques.
  - Utilized **SVM** with **linear kernel** for training and evaluation process, **achieving exceptionally high accuracy rates**.
  - Demonstrated proficiency in **NLP**, **ML**, **NN**, **deep learning methodologies** specifically for financial decision-making.

PROJECTS

- **Chatbot** *Aug. 2022 - Sep. 2022*
  SkillVertex Github
  - **Chatbot** utilizes **TensorFlow** and **NLTK** for NLP tasks, loading intents, extracting words, and preprocessing data.
  - **Neural network model** has been built with TFLearn framework, trained using **bag-of-words** and **one-hot encoding**.
  - **Trained model**, data saved for future use; dedicated functions have been delineated **cleanup**, **classification, response**.
  - Interactively responds appropriately and adeptly, demonstrates proficiency in **NLP**, **ML**, **neural network modeling**.

- **Covid-Detection** *Aug. 2022 - Sep. 2022*
  SkillVertex Github
  - **Keras CNN** model effectively detects COVID-19 from **chest X-rays**, defining **architecture** with **convolutional layers**.
  - Applies **data augmentation** with **ImageDataGenerator**, utilizing **separate generators** for training and validation.
  - **Training** was halted prematurely due to insufficient data availability; evaluation metrics include loss and accuracy.
  - Proficiency shown in **deep learning**,with a particular emphasis on the **CNN-based medical image classification**.

- **Loan Prediction** *June. 2023 - July. 2023*
  Model Predicting the game of loan Github
  - **SVM-based** loan prediction system encompasses rigorous **data preprocessing**, **data splitting**, and **SVM classification**.
  - **SVM** with **linear kernel** is employed for both the **training** and **evaluation** phases, ensuring robust model performance.
  - Exceptionally **high accuracy** and **effectiveness** has been achieved in the prediction of loan approval outcomes.
  - **Proficiency** shown in **data preprocessing**, **feature engineering**, and model training for **financial decision-making**.

- **My Portfolio** *May 2023 - Jul. 2023*
  My Short Journey Github
  - The front-end of the **Portfolio** has been meticulously developed using **HTML**, **CSS**, **Web Development** technologies.
  - Reflects **growth** and **dedication** as a budding developer, narrates journey from novice to proficient developer.
  - The portfolio evolves from initial sketches to the final code, effectively showcasing the progressive skill development.
  - The portfolio ardently embraces challenges as pivotal moments for **learning**, **adaptation**, and **innovation**.

- **Exam Window** *Mar. 2023 - Apr. 2023*
  For Different Compititive Examination Github
  - The user interface for the **Exam Portal** has been thoughtfully designed, employing **HTML**, **CSS**, **Web Development**.
  - I led the development of an intuitive **user interface**, prioritizing **user-friendly** design and **smooth navigation**.
  - Utilizing **HTML**, **CSS**, and **JavaScript**, I developed a visually striking captivating portal focused on user engagement.
  - **Gateway** to efficient, engaging examination process reflects a commitment to **impactful solutions**.

TECHNICAL SKILLS

- **Programming Languages**: Python, C, C++
- **Miscellaneous**: Artificial Intelligence, Machine Learning, Deep Learning*, Data Science*
- **Softwares**: Google-Colab, Anaconda, MATLAB, Microsoft-Office, Sublime-Text, Brackets
- **Frameworks**: Keras, Tensorflow, Bootstrap
- **Web technologies**: HTML, CSS, Javascript, Node-Js*
- **Database management**: MySQL, Microsoft Excel
- **Operating Systems**: Mac-OS, Windows, Linux

* Elementary proficiency

Positions of Responsibility

- **Cultural Secretary**, Brahmaputra Hostel, IIT Guwahati — *Apr. 2023 - Apr. 2024*
- **Matrix Mentor**, Mathematics and Computing, IIT Guwahati — *Apr. 2022 - present*
- **Coordinator Spirit 2022**, IIT Guwahati — *Oct. 2022*

Achievements

- **Joint Entrance Examination Advance**, Secured All India Category Rank 394. — *2021*
- **Joint Entrance Examination Mains**, Secured All India Category Rank 175. — *2021*
- **Maharashtra Health And Technical Common Entrance Test (MHT-CET)**, Secured 99.1533787 percentile. — *2021*
- **Maharashtra State Certificate in Information Technology**, Secured 90/100 in IT Literacy course. — *2015*

Key courses taken

- **Mathematics**: Linear Algebra, Basic Calculus, Discrete Maths, Probability and Random Processes, Elementary Number Theory and Algebra, Group Theory, Introduction to Mathematical Economics, Monte Carlo Simulation, Stochastic Calculus for Finance, Scientific Computing*, Statistical Inference and Multivariate Analysis*
- **Computing**: Database Management System, Web Development , Data Structures, Design and Analysis of Algorithms, Object- Oriented Programming, Operating Systems, Artificial Intelligence (Skill-vertex), Digital Design, Optimization*

Extracurriculars

- **Bronze Medal**, Badminton, Spardha — *2023*
- **Badminton Club Member**, IIT Guwahati — *2023*
- **Drawing**, Intermediate Drawing Exam, Elementary Drawing Exam — *2013,2014*