SANCHAY NARENDRA GAWANDE

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TECHNICAL SKILLS

· Top Skills - Web application development, APIs, ETLs, LLM, RESTful API's.
· Mastered framework (MERN) - MongoDB, Express.js, React, Node
· Databases - MySQL, Oracle, PostgreSQL
· Technologies - Postman, Docker, Matplotlib, Git
· Data Analysis Tools - Tableau, Pandas, Matplotlib
· Programming languages - Python, Java, JavaScript, R, PHP, C, C++
· Frameworks & Libraries - React, Node.js, Express, Bootstrap
· Cloud Services - AWS Web Services, Azure, EC2
· Automation Skills - Java, Selenium, Cucumber, SOAP, Rest

PROFESSIONAL EXPERIENCE

Umass Boston **Jan 2024 - May 2024**
Web Developer | Flask, Firebase, MongoDB, Llama Model

- Engineered a web application featuring a personalized chatbot using the **Llama model**, aiding newly diagnosed diabetes patients; now actively assessed by over 50 healthcare professionals at UMass Boston, enhancing patient care.
- Implemented **MongoDB** to manage robust data across 10,000+ patient interactions, **Firebase** for secure authentication handling over 500+ daily logins, and used HTML and CSS to create a responsive and user-centric interface.
- Introduced a provider portal now used by 80% of the care providers at UMass, resulting in a 50% improvement in patient follow-up compliance.

Prof. Ram Meghe Institute of Technology and Research, Amravati **Jan 2020 - July 2021**
Teaching Assistant | Website Development, Frontend Development

- Assisted in teaching the Web Development course for undergraduate students that enhanced learning outcomes for 300+ students, resulting in a 15% improvement in overall course grades.
- Provided support for coding assignments and projects, contributing to a 20% increase in assignment completion rates.

Prof. Ram Meghe Institute of Technology and Research, Amravati **Jan 2021 - Aug 2021**
Research Assistant | Natural Language Processing (NLP), Deep Learning (DL), model training and evaluation

- Developed and implemented advanced AI and ML models, utilizing **CNNs**, **RNNs**, and **LSTMs** for applications such as image caption generation, object recognition, and scene recognition, incorporating methodologies like feature extraction, sequence prediction, attention mechanisms.
- Designed a multi-caption generator, improving caption diversity by 15% and relevance by 30%.Analyzed 50+ models and conducted experiments, resulting in a 40% increase in performance metrics.

PROJECTS

Social Media App Using MERN Stack **Mar 2024 - July 2024**

- Developed a comprehensive social media application using the **MERN** stack, featuring user authentication, post creation, and real-time chat functionalities.
- Utilized **MongoDB, Express.js, Node.js, and React** to manage user data, create **RESTful APIs**, and build responsive user interfaces.
- Integrated **Docker** for containerization and deployed the application on **AWS** for scalability and performance optimization.

Winner Prediction in CSGO Using Machine Learning **Nov 2023 - Dec 2023**

- Crafted sophisticated algorithms using **Neural Networks** and **Linear Regression**, leveraging extensive data from 500+ team metrics and player statistics, successfully predicting CSGO game winners with a 70% accuracy rate.
- Applied advanced data preprocessing techniques that improved model accuracy by 15% and reliability. Harnessed **Python, TensorFlow, and Scikit-learn** in a comparative analysis showing a 20% better performance over baseline models
- Achieved the highest score of 100/100 for this project, earning special commendation from the professor for outstanding innovation.

EDUCATION

Master of Science - Computer Science **Sept 2022 - May 2024**
University of Massachusetts Boston
Course work: Analysis of algorithms, Applied machine learning, Database Management systems, OOPS, AI, Computer Vision

Bachelor's in Computer Science and Engineering **July 2018 - May 2022**
Sant Gadgebaba Amravati University, Maharashtra
Course work: Design and Analysis of Algorithms, Web Technology, Engineering Mathematics, Data Structures

ACHIEVEMENTS

- Won First prize in the Smart India Hackathon 2022 competition, based on the concept of Hon'ble Prime Minister Narendra Modi.
- Second Prize in Web Designing in Espereza 2020: Secured second place in the web designing competition held at PRMITR, Badnera.
- Formal Student Secretary of the 'CSI' (COMPUTER SOCIETY OF INDIA): Prof. RamMeghe Institute of Technology and Research.
- Team Leader, CSI Coding Team: Prof. RamMeghe Institute of Technology and Research, Amravati.