

Prathamesh K Gadgil

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EDUCATION

State University of New York at Buffalo

Buffalo, NY

Masters of Engineering Science Data Science

Aug. 2024 – Dec 2025

Relevant Coursework - Statistical Learning and Data Mining I, Introduction to Probability Theory for Data Science, Introduction to Numerical Mathematics for Data Scientists, Python for Data Scientists

Gokhale Education Society's R. H. Sapat College of Engineering

Nashik, India

Bachelors of Engineering in Computer

Aug. 2020 – May 2024

Relevant Coursework - Data Science, Artificial Intelligence, Data Structures and Algorithms, Database Management System, Machine Learning, Engineering Mathematics, Business Intelligence, Object Oriented Programming

TECHNICAL SKILLS

Languages: Python, R, MATLAB, Data Analysis, SQL, Data Structure

Frameworks: Jupyter, Power BI, Looker Studio, Excel

Technology: Git, Docker, VS Code, Visual Studio, RStudio, My SQL, PyCharm

Libraries: pandas, NumPy, Matplotlib, Plotly

Web Development: HTML, CSS, Javascript

EXPERIENCE

One Open Educare Federation

March 2023 - May 2023

Intern

Nashik, India

- Worked on various projects, focusing on frontend development using HTML, CSS, and JavaScript.
- Demonstrated strong teamwork by effectively collaborating with team members and stakeholders, and contributed innovative ideas to enhance project outcomes.
- Made significant progress in mastering JavaScript, contributing to developing responsive and user-friendly web interfaces.

PROJECTS

Alert Drive System

- Designed and developed a real-time driver drowsiness detection system using advanced Facial Recognition technology.
- Implemented using Python, OpenCV, Dlib for facial landmark detection and pygame for real-time alert generation.
- Mathematical model implementation using a 5-tuple system (States, Inputs, Outputs, Transition Function, Memory) to monitor and respond to driver fatigue.
- Successfully integrated Euclidean Distance calculations for accurate EAR monitoring.

NLP : Fake News Detector

- Performed text data cleaning by removing punctuation and stop words, and prepared datasets for analysis using tokenization and padding techniques.
- Conducted data analysis and visualized datasets through word clouds and other visualization methods to gain insights into text data.
- Built and trained a Recurrent Neural Network (RNN) model using Long Short-Term Memory (LSTM) units to detect fake news.
- Assessed the performance of the trained deep learning model, optimizing for accuracy and reliability in detecting fake news.

ACHIEVEMENT

- Published a technical paper on "Alert Drive-Safe Drive Facial Warning System" in IJRASET, showcasing proficiency in the domain