Sourabh Suresh Patil

Email: sourabhpatil9597@gmail.com | +91 9322549597 | **Project Repositories:** https://github.com/Er-Sourabh-Patil

Professional Summary:

AI & Data Science Engineering student with practical knowledge in designing machine learning models, deep learning projects, and smart web-based applications. Proficient in Python, Java, and advanced frameworks like Flask, Streamlit, and Scikit-learn for end-to-end model design and deployment. Experienced in the development of LSTM-based sentiment analysis systems, and full-stack web applications that incorporate front-end as well as back-end technologies. Strong data preprocessing, feature engineering, and model evaluation skills in predictive analytics. Enthusiastic about applying AI and Data Science to real-world issues and adding value to innovative projects in fast-paced environments.

Education:

B. Tech (Artificial Intelligence & Data Science) Government College of Engineering, Ratnagiri| **CGPA: 6.5**

Technical Skills:

Programming Languages: Python, Java, C, R , HTML, CSS

Frameworks/Libraries: Flask, Streamlit, Pandas, NumPy, Matplotlib, Seaborn , Scikit-learn, NLTK , TensorFlow , PyTorch

Machine Learning: Supervised & Unsupervised Learning, Model Training, Evaluation, Feature Engineering

Tools: PyCharm, VS Code, R studio, Jupyter Notebook, Git, GitHub, WordPress

Database: MySQL

Data Visualization: Power BI, Advance Excel

Projects:

1. Sentiment Analysis of Social Media Reviews (LSTM):

Developed an LSTM-based deep learning model using social media data (Twitter, Facebook, Google Reviews) to classify sentiment into positive, negative, or neutral. Incorporated the model into a Flask web application with a sentiment gauge for animated real-time visualization.

Tools & Technologies: Python, TensorFlow, Keras, Flask, Pandas, NumPy, Scikit-learn, NLTK, Matplotlib, NLP , Deep Learning

URL : https://github.com/Er-Sourabh-Patil/Sentiment-analysis-of-social-media-reviews

2. EntryExit-Count.AI

Developed a real-time computer vision system to accurately count people entering and exiting a monitored area using YOLOv8 for person detection, DeepSORT for multi-object tracking, and a line-crossing algorithm. Integrated the system into a Flask-based web dashboard with live video streaming, real-time counters, historical analytics, and crowd safety alerts.

Tools & Technologies: Python, YOLOv8, DeepSORT, OpenCV, Flask, SQLite, SQLAlchemy, HTML, CSS, JavaScript, Chart.js

URL : https://github.com/Er-Sourabh-Patil/EntryExit-Count.AI

3. E-Voting Platform

Developed a secure and user-friendly electronic voting system using Java for efficient and transparent election management. The system allows administrators to manage candidates and users to vote digitally with authentication features, ensuring data security and integrity.

Tools & Technologies: Java, Java Server Pages (JSP), JDBC, MySQL, HTML, CSS, JavaScript

URL : https://github.com/Er-Sourabh-Patil/OnlineVotingSystem

Internships:

1. **AI & Data Science Intern –DataPointer Technologies : July-August 2025 (Remote)**
   Learned practically to implement machine learning and data analysis projects involving data preprocessing, model training, and evaluation using Python, Pandas, NumPy, Scikit-learn, and Matplotlib. Enhanced knowledge of supervised learning, sentiment analysis, and data visualization for real-world applications. **Key Skills:** Python, Machine Learning, Pandas, NumPy, Scikit-learn, Data Visualization

2. **Full Stack Development Intern –Lcube Creation: July-August 2024 (On Site)**
   Learned Java, JSP, JDBC, and MySQL for building dynamic full-stack web applications. Gained hands-on experience in developing a Secure E-Voting Platform, focusing on user authentication, database connectivity, and backend integration. Strengthened understanding of web architecture, form validation, and secure data handling in Java-based environments.
   Key Skills: Java, JSP, JDBC, MySQL, Full-Stack Development

3. **Web Development Intern – Codsoft Technologies: October – November 2023 (Remote)**
   Acquired practical knowledge of design and development of interactive and responsive web pages using HTML, CSS, JavaScript. Gained hands-on experience in front-end development, UI/UX enhancement, and integration of dynamic web components. Focused on creating user-centric, responsive web interfaces. **Key Skills:** HTML, CSS, JavaScript, Web Design

Certifications:

1. 100 days Python Bootcamp (Udemy)
2. Introduction to Machine Learning (Udemy)
3. Machine Learning for Engineering and science applications By IIT Madras (swayam.gov)

Achievements and Activities:

1. Second Prize Winner in Project Exhibition at TechIgnite by Google Developers Group LSPGCOER
2. Published Research Paper On Enhancing Electoral Integrity: Implementation of a Secure E-Voting Platform In International Journal of Scientific Research in Engineering & Management.