Prachi Ravi Saibewar

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Education

- **University of Central Florida** Orlando, Florida
  Master of Science in Computer Science; GPA: 4.0 *Aug 2023 - May 2025*
  Courses: *Design and Analysis Of Algorithms,Advanced Artificial Intelligence, Machine Learning,*
- **Savitribai Phule Pune University** Pune, India
  Bachelor of Engineering - Computer Science; GPA: 7.7 *July 2016 - June 2020*
  Courses: *Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

Skills Summary

- **Languages**: Python, C++, PL/SQL, JavaScript, SQL, HTML, CSS
- **Frameworks & Libraries**: Node.js, React.js, Express.js, Scikit-learn, TensorFlow, Keras, Flask, Django, NLTK
- **Databases**: PostgreSQL, MySQL, MongoDB, SQLite, Oracle SQL Developer
- **Tools**: Git, BI Publisher, Power BI, Socket.io, Pickle, JWT Authentication
- **Technologies & Concepts**: RESTful APIs, WebSockets, Machine Learning, Data Visualization, Network Security, Cloud Engineering
- **Professional Skills**: Problem Solving, Collaboration, Effective Communication, Adaptability

Experience

- **Infosys** Remote
  Senior Systems Engineer (Full-time) *Apr 2021 - Jul 2023*
  - **Enhanced Oracle EBS Modules with PL/SQL**: Improved supply chain performance by 20% through optimized packages and procedures, streamlining key processes.
  - **Implemented Secure Middleware Solutions in Express.js**: Established reliable communication between front-end interfaces and backend services, enhancing system security and scalability.
  - **Developed RESTful APIs in Node.js**: Enabled efficient data flow, reducing retrieval time and improving user experience across applications.
  - **Led Oracle Cloud Implementations and Data Migrations**: Managed seamless system upgrades and integrations, ensuring consistent performance with zero downtime.
  - **Built Actionable Reports in BI Publisher**: Provided stakeholders with insights through tailored reports, improving decision-making and data accessibility.

Projects

- **Realtime Chat Application (MongoDB, Express.js & Node.js, React.js, Socket.io)**
  GitHub Repository - ConvoMate Backend
  - **JWT Authentication:** Implemented secure user authentication using JSON Web Tokens (JWT) to ensure safe access control and protect user data during login and session management.
  - **Private Messaging:** Developed a robust private messaging system allowing users to engage in one-on-one conversations with real-time message delivery and status updates.
  - **Group Chat Functionality:** Enabled users to create group chat rooms where messages can be broadcast to multiple participants simultaneously, supporting efficient group communication.
  - **Real-Time Updates and Responsive Design:** Incorporated real-time updates for message status (read/unread), user presence (online/offline), and notifications, alongside a responsive UI that includes both light and dark mode themes for an enhanced user experience.
- **Twitter Sentiment Analysis App (Flask, scikit-learn, HTML/CSS/JavaScript)**
  GitHub Repository - Twitter Sentiment App
  - **Sentiment Analysis:** Implemented machine learning models (Logistic Regression and Naive Bayes) to predict the sentiment (Positive or Negative) of tweets and user-input text.
  - **Model Selection:** Developed functionality allowing users to choose between two models—Logistic Regression and Naive Bayes—for sentiment prediction, enhancing user interaction and control.
  - **Front-End Interface:** Created a user-friendly and intuitive interface using HTML/CSS/JavaScript, providing a simple way for users to input text and receive sentiment analysis results.
  - **Deployment on Render:** Deployed the application on Render for easy public access, leveraging Flask to handle backend API requests and scikit-learn for model integration.
  - **Model Serialization:** Used Pickle to serialize machine learning models, enabling efficient model loading and improving app performance.