SRIJAN PRAKASH

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**Profile**

Software Developer with hands-on experience delivering machine learning solutions at Big 4 consulting firm. Built full-stack applications including a mental health prediction model achieving 83.33% accuracy. Efficient in Python, SQL, and cloud technologies with 2 Oracle AI certifications. Proven ability to translate business requirements into scalable technical solutions.

**Technical Skills**

* Languages & Tools: Python, SQL, HTML, JavaScript, React
* Libraries & Platforms: Hugging Face, PyTorch, Streamlit, Microsoft Office (Excel, Word, PowerPoint)
* Data Analysis & Modeling: EDA, Data Cleaning, Feature Engineering, Data Visualization
* AI/ML Techniques: Deep Learning, Model Evaluation, Classification, Predictive Analytics

**Certifications:**

* Oracle Cloud Infrastructure AI Foundations Associate (2023)
* Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
* Workday Basics Series

**Professional Experience**

EY (Technology Consulting) — AI/ML Intern (Jan 2024 – May 2024)

* Researched and implemented deep learning models in PyTorch for deepfake detection.
* Integrated models into Flask-based applications for demonstrative and client-facing tools.
* Implemented Docker containerization for seamless dependency management and consistent deployment environments across development and research
* Conducted stakeholder meetings with firm partners and senior executives, gathering feedback to refactor required parameters and user experience based on client requirements

**Education**

Bachelor of Technology in Computer Science and Engineering

Symbiosis Institute of Technology, Pune, India

**Key Projects**

NebulaLLM — Commercial Ready AI Chat Application

* Built modern AI chat app integrating with LM Studio for local LLM inference using open-source models for supporting reasoning, chat, and code-generation tasks
* Designed FastAPI backend with OpenAI-compatible APIs, JWT authentication, and PostgreSQL persistence
* Implemented real-time streaming responses, conversation context management, and file uploads (PDF, DOCX, TXT, CSV)
* Developed Next.js frontend with React components for streaming chat and interactive Monaco Editor for live code testing
* Automated development setup with Docker-based PostgreSQL

Mental Health Prediction App

* Built machine learning web app achieving 83.33% accuracy in mental health disorder prediction using Random Forest, processing 1,259 survey responses across 8 key factors
* Developed interactive Streamlit dashboard with real-time predictions and confidence scores for workplace mental health awareness
* Engineered data preprocessing pipeline reducing 27 features to 8 optimized features, improving model performance by 4% over baseline algorithms
* Deployed ML solution with robust error handling and cross-validation, achieving consistent 10-fold validation performance

SmoothBooks — Accounting App

* Built a production-ready accounting platform with invoicing, expense tracking, payroll integration, tax prep, and interactive dashboards.
* Designed JWT-based authentication system with secure login/registration.
* Developed RESTful Flask API with SQLAlchemy ORM, scalable from SQLite to PostgreSQL.
* Engineered financial dashboards with real-time charts and KPIs using Recharts + Material-UI.
* Delivered a responsive React 18 frontend with Material-UI, React Router, and Axios for API integration.

**Hobbies & Interests**

* Composing and producing original music tracks using Digital Audio Workstations like Ableton Live Studio
* Audio Processing: Advanced audio and vocal processing and editing using tools like Audacity and Melodyne
* Visual Effects: Creating animations and music videos with tools like Adobe Premiere Pro and Adobe After Effects