VINAYAK VIVEK JOSHI

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PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate with expertise in Machine Learning, Deep Learning, and full-stack development. Demonstrated experience building production-ready AI applications with 80+ percent accuracy in healthcare prediction systems. Proficient in Python, TensorFlow, and cloud deployment with a strong foundation in data science and software engineering principles.

EDUCATION

Vellore Institute of Technology   **Chennai, Tamil Nadu**
Bachelor of Technology in Computer Science and Engineering   *Aug 2023 – July 2027*
- CGPA: 8.74/10.0
- Relevant Coursework: Data Structures and Algorithms, Machine Learning, Database Management Systems, Statistics, Software Engineering, Object-Oriented Programming

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, SQL
Artificial Intelligence & Machine Learning: Scikit-learn, TensorFlow, PyTorch, Keras, OpenAI API, Google Gemini AI, Natural Language Processing, Large Language Models
Data Science: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Statistical Analysis, Feature Engineering, Data Visualization
Web Development: React.js, Flask, Streamlit, HTML5, CSS3, RESTful APIs
Databases & Cloud: MySQL, Firebase, Supabase, Google Cloud Platform, Streamlit Cloud
Tools: Git, Docker, Jupyter Notebooks, VS Code, Google Colab, Anaconda

PROJECTS

Diabetes Risk Prediction System | GitHub   Python, Scikit-learn, Streamlit
- Developed machine learning web application achieving 81% accuracy in diabetes risk assessment using Logistic Regression on clinical datasets
- Implemented feature engineering pipeline processing 8 clinical parameters including glucose levels, BMI, and family history
- Deployed production application on Streamlit Cloud with interactive dashboard and real-time risk scoring capabilities

Rainfall Prediction System | GitHub   Python, Flask, XGBoost, Machine Learning
- Developed sophisticated weather prediction web application achieving 82.43% accuracy using XGBoost classification algorithm
- Implemented comprehensive meteorological data analysis processing 10+ weather parameters.
- Built responsive Flask web interface.

AI Story Generation Platform | GitHub   Python, Flask, Google Gemini AI
- Developed intelligent content generation platform with Google Gemini AI integration and customizable story parameters
- Implemented multi-language support (5 languages), story continuation features, and genre-specific narrative generation
- Integrated text-to-speech API and export functionality (PDF/TXT) with responsive Flask backend and modern UI

Food Delivery Management System | GitHub   React.js, Supabase, REST APIs
- Built comprehensive food delivery platform with React.js frontend and Supabase backend featuring real-time synchronization
- Implemented secure authentication system, order management functionality, and responsive UI/UX design
- Optimized application performance through efficient state management and database query optimization

EXPERIENCE

Machine Learning Developer   **Independent Projects**
Self-Directed Research and Development   *Jan 2023 – Present*
- Developed Movie Recommendation System with sentiment classification for personalized discovery.
- Built Car Price Predictor using regression algorithms to estimate vehicle values based on specifications.
- Implemented Spam Mail Detection system using NLP techniques and classification algorithms for email filtering.
- Created Financial Reviews Sentiment Analysis to extract business insights.
- Achieved clinical-grade accuracy in healthcare and financial prediction systems through rigorous validation methodologies.

CERTIFICATIONS

IBM Generative AI for watsonx.ai - Enterprise-level generative AI applications and implementation

ACHIEVEMENTS

Maintained academic excellence with 8.74/10.0 CGPA in Computer Science and Engineering program.

Successfully deployed 3+ production-level machine learning and web applications with active user engagement.

Developed AI solutions across healthcare, education, and entertainment domains with proven business impact.

Built comprehensive GitHub portfolio demonstrating full-stack development and ML engineering expertise.