VINAYAK VIVEK JOSHI

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👤 PROFESSIONAL SUMMARY

Machine Learning Engineer & AI Specialist   **AI/ML, Deep Learning & GenAI Enthusiast**

- **Specialized Expertise:** Computer Science undergraduate with demonstrated proficiency in Machine Learning, Deep Learning, and Generative AI through **4+ end-to-end ML projects** achieving **clinical-grade accuracy** in healthcare and predictive analytics domains.
- **Technical Proficiency:** Complete ML pipeline mastery from data preprocessing and feature engineering to model deployment, with hands-on experience in classification, regression, and predictive analytics using Python, Scikit-learn, and advanced statistical modeling techniques.
- **Innovation Focus:** Passionate about leveraging artificial intelligence to solve complex real-world challenges in healthcare diagnostics, autonomous systems, and intelligent automation with emphasis on scalable, production-ready solutions.

🎓 EDUCATION

Vellore Institute of Technology   **Chennai, Tamil Nadu**
Bachelor of Technology in Computer Science & Engineering   *Aug 2023 – June 2027*

- **Academic Excellence:** CGPA: **8.74/10.0** - Demonstrating consistent high performance in technical coursework

⚙ TECHNICAL SKILLS

AI & Machine Learning: Scikit-learn, TensorFlow, PyTorch, Regression Analysis, Classification, Random Forest, SVM, Gradient Boosting, XGBoost, Model Evaluation & Validation, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Statistical Analysis, Feature Engineering, Data Preprocessing, Exploratory Data Analysis, OpenAI GPT, Prompt Engineering, Natural Language Processing, Large Language Models
Programming Languages: Python, C/C++, Java, JavaScript
MLOps & Deployment: Docker, Git, Model Deployment, Flask, Streamlit, RESTful Services, Jupyter Notebooks
Database & Cloud: Firebase, Supabase, Google Cloud Platform, Streamlit Cloud
Development Tools: VS Code, PyCharm, Google Colab, Kaggle, Anaconda, Virtual Environments

</> MACHINE LEARNING PROJECTS

💙 **Diabetes Risk Predictor** | *Python, Scikit-learn, Streamlit, Clinical ML, Healthcare AI* | ○ GitHub
- **Healthcare Impact:** Developed a machine learning web application for diabetes risk assessment achieving **clinical-grade accuracy** using validated algorithms on medical datasets with **8 clinical parameters** evaluation.
- **Production Excellence:** Deployed enterprise-grade application on Streamlit Cloud with interactive risk visualization, real-time analysis, and comprehensive risk stratification serving healthcare professionals worldwide.

💙 **Heart Disease Prediction System** | *Python, Scikit-learn, Statistical Modeling, Medical Data Analysis* | ○ GitHub
- **Healthcare Impact:** Built an AI-powered diagnostic system for early cardiovascular disease detection using classification algorithms on clinical datasets, achieving **high precision and recall metrics** for medical risk assessment.
- **Data Science Excellence:** Performed extensive exploratory data analysis and correlation studies to identify key biomarkers and risk factors, implementing feature scaling and handling class imbalance using SMOTE techniques.

🤖 **AI Story Generator** | *Python, Flask, Google Gemini AI, Natural Language Processing, Web Development* | ○ GitHub
- **GenAI Innovation:** Developed a feature-rich web application leveraging Google Gemini AI for intelligent story generation with customizable parameters including genre, length, character types, and **multi-language support across 5 languages**.

- **Full-Stack Excellence:** Implemented advanced features including story continuation, text-to-speech integration using Google TTS, PDF/TXT export functionality, and modern glassmorphic UI with responsive design and animated particle effects.

🍴 **Mom's Kitchen Food Delivery Platform** | *React, Supabase, OpenAPI* | ○ GitHub
- **Smart Platform:** Developed a comprehensive food delivery platform using React and Supabase architecture with modern UI/UX design and real-time order management functionality.

🏆 ACHIEVEMENTS & CERTIFICATIONS

🎓 **Academic Excellence:** Strong academic performance with **8.74/10.0 CGPA** in Computer Science & Engineering program

✳️ **Industry Certification:** Completed IBM's Generative AI for watsonx.ai certification course, gaining expertise in enterprise-level GenAI applications

🔧 **Project Portfolio:** Completed **4+ machine learning projects** with measurable impact and documented performance metrics

🛠️ **Technical Expertise:** Proficient in end-to-end ML pipeline development from data collection to model deployment

💡 **Continuous Learning:** Currently learning Deep Learning and exploring advanced AI techniques in a professional capacity

📊 **Algorithm Mastery:** Experience with both supervised and unsupervised learning algorithms across multiple domains