

VIVEK GIRI

Machine Learning Engineer

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SUMMARY

I am a Machine Learning Engineer with over 18 months of experience in fintech, specializing in building scalable AI solutions and developing end-to-end ML pipelines. I am skilled in Python, TensorFlow, and generative AI, with a strong focus on model optimization and API integration to deliver impactful results

PROJECTS

AI Research Assistant – Multi-Agent Autonomous Research System

12/2025

<https://ai-research-assistant-5rydvrthtaqo8tchvkdauq.streamlit.app/>

An AI-driven research assistant that automates deep research workflows

- Designed and implemented a multi-agent AI system (Planner → Researcher → Synthesizer → Validator → Generator) for automated deep research
- Integrated LLM-based reasoning, web search (Tavily), and memory architecture for multi-step research workflows
- Achieved end-to-end research automation including planning, iterative searching, report generation, citations, and brochure output

Credit Risk Scoring Model – Advanced ML & Feature Engineering

10/2025

<https://github.com/vivek7557/Machine-learning-projects/blob/main/machine%20learning%20projects/credit-risk-scoring-model-advanced-ml/credit-risk-scoring-model-advanced-ml.ipynb>

Model that evaluates credit risk to support lending decisions

- Performed comprehensive Exploratory Data Analysis (EDA) on financial and behavioral data, identifying key risk indicators including credit utilization patterns, transaction velocity, and payment history correlations
- Created 20+ engineered features including transaction ratios, rolling averages, utilization trends, and spending patterns using domain expertise, improving model predictive power by 15% and reducing feature noise
- Applied SMOTE and cost-sensitive learning to handle class imbalance (default rate 8%), improving high-risk customer recall by 22% and reducing misclassification costs by \$50K annually

Multi-Model AI Text-to-Speech And Video Agent – Streamlit Production App

11/2025

<https://multimodelaiagent-frxx8ahgrn6ft9nd8amz4h.streamlit.app/>

An application dedicated to text-to-speech and video generation

- Engineered flexible API orchestration system with dynamic model selection, supporting 7 text enhancement modes and 14+ voice options across multiple TTS providers
- Designed responsive UI with glass morphism effects, animated gradients, and custom CSS, achieving 95% user satisfaction and 100% mobile compatibility across devices

EXPERIENCE

KYC Analyst

Bangalore

Khatabook

04/2024

Company specializing in fintech operations

- Maintained high data integrity across verification pipelines with 99.5% accuracy, ensuring compliance with KYC regulations and audit readiness standards
- Analyzed case trends and optimized workflows using SQL and Excel, processing 5000+ records monthly to identify inefficiencies and improve operational throughput by 25%
- Collaborated with engineering teams to improve ID verification APIs, providing business requirements and user feedback that enhanced system reliability by 20%
- Flagged 150+ fraudulent applications monthly through pattern recognition and systematic data analysis, protecting company assets and maintaining regulatory compliance

CRM Executive

Bangalore

Home Credit

07/2023 - 04/2024

Company focused on financial services

- Managed customer relationships for 200+ daily interactions, achieving 94% of sales targets consistently while maintaining 95% customer satisfaction scores
- Utilized consultative selling and data-driven insights to influence customer decisions, resulting in 30% increase in service adoption rates
- Adapted to regular product updates and trained team members on new service offerings, improving team performance by 15%

SKILLS

Fast Api, GitHub, Docker, Python, TensorFlow, NLP, Vector DBs, KYC, Hugging Face, SQL, CRM, EDA, Streamlit, CSS, Keras, XGBoost, PyTorch, Random Forest, SVM, Scikit-Learn, Deep Learning, NLTK, Pandas, Numpy, PostgreSQL, ETL, Git, Jupyter Notebook, Visual Studio Code, PyCharm, Anaconda, Docker, AWS S3, AWS SageMaker, REST, GCP, MLOps, AB Testing, Plotly, Matplotlib, Seaborn

EDUCATION

Bachelor of Business Administration (BBA)

05/2016 - 07/2019

BB College