**Pramodh Gudla**

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**Summary:**

With around 5 years of experience in designing and deploying cutting-edge machine learning solutions. Specialized in Generative AI, Natural Language Processing, and large-scale data systems. Proven track record of delivering measurable business impact through innovative AI applications, including a $20M+ revenue increase through credit optimization algorithms. Combines strong technical expertise with the ability to translate complex concepts into actionable business solutions

**Technical Skills:**

**Programming Languages:** Python, Java, SQL (MySQL, PostgreSQL)

**AI & Machine Learning:** TensorFlow, PyTorch, Scikit-learn, XGBoost, Hugging Face Transformers, OpenCV,

Agentic AI, Generative AI, LLMs, RAG, Vector Databases, LangChain, Dialogflow

**AI Search Techniques:** Embeddings, FAISS, Pinecone

**Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Data Cleaning, Data Transformation,

Exploratory Data Analysis (EDA), Statistical Analysis, Feature Engineering

**Deep Learning & NLP:** TensorFlow, PyTorch, NLTK, spaCy, Hugging Face

**MLOps & Model Deployment:** Flask, FastAPI, TensorFlow Serving, CI/CD Pipelines, Git, GitHub, GitLab, CI/CD, Jenkins

**Databases & Big Data:** MySQL, PostgreSQL, MongoDB, Hadoop, Pinecone, Snowflake

**Data Engineering:** Apache Spark, PySpark, Airflow, dbt, Hadoop, Kafka

**Cloud & DevOps:** AWS Azure (Databricks, AI Services), Docker, Kubernetes, Terraform

**Mathematics & Concepts:** Linear Algebra, Probability, Statistics, Optimization Algorithms, Time Series Analysis

**Software Development & System Design**: RESTful APIs, Distributed Systems, Microservices Architecture

Data Visualization: Tableau, Power BI, Matplotlib, Seaborn

**Professional Experience:**

Role: Data Scientist (AI)

**Capital One** ***Dec 2023 – Present***

**Responsibilities:**

* Spearheaded the development of an AI-powered credit optimization platform that dynamically personalizes offers by
* analyzing financial behaviors and risk indicators, resulting in 30% higher acceptance rates and $20M+ annual revenue
* growth.
* Engineered fine-tuning pipelines for LLaMA-3 and GPT models, improving accuracy by 25% through innovative techniques
* in prompt engineering and hyperparameter optimization.
* Architected a Retrieval-Augmented Generation (RAG) system with Pinecone vector database, reducing information
* retrieval time by 40% while maintaining 99.9% recall on 1M+ embeddings.
* Developed and deployed multimodal LLM capabilities that improved image-to-text conversion accuracy by 20%, enabling
* automated processing of financial documents.
* Implemented robust AI guardrails that reduced harmful outputs by 90% while maintaining model performance, ensuring
* compliance with financial regulations.
* Optimized cloud infrastructure on AWS, scaling GenAI APIs to handle 50K+ daily requests with 99.9% uptime using
* Kubernetes and terraform.
* Collaborated with product teams to integrate explainable AI features, enabling transparent decision-making for credit underwriting processes.

**Role: Data Scientist**

**Cognizant Technology Solutions *Jan 2021 – Dec 2022***

**Responsibilities:**

* I worked on a project with a cross-functional team in the development of machine learning systems for insurance claims
* processing, reducing false payouts by $2.1M annually through advanced fraud detection algorithms.
* Engineered NLP pipelines using BERT and RoBERTa models to automate review of 50K+ monthly claims, achieving 94%
* accuracy in document classification.
* Implemented computer vision systems that reduced damage assessment time by 40% through automated image analysis of
* vehicle accidents.
* Designed and deployed scalable ML solutions on Azure Databricks, enabling real-time claim processing in under 30 seconds.
* Developed SHAP-based model explainability frameworks that met regulatory compliance requirements while maintaining
* model performance.
* Optimized ETL workflows using PySpark, reducing data preparation time by 50% while improving data quality.
* Collaborated with engineering teams to establish MLOps best practices, including version control and continuous
* monitoring.

**Role: Junior Data Scientist**

**HCL Tech *Nov 2019 – Dec 2020***

**Responsibilities:**

* Analyzed 10M+ monthly transactions to identify spending patterns and optimize credit card profitability.
* Developed predictive models using Logistic Regression and Random Forest that improved customer retention by 15% and
* reduced payment defaults by 25%.
* Created interactive Power BI dashboards that tracked redemption rates, delinquency metrics, and customer lifetime value.
* Automated SQL reporting processes, reducing manual analysis time by 50% while improving data accuracy to 98%.
* Designed promotional offer analytics that increased card renewals by 15% through targeted marketing strategies.
* Presented data-driven insights to executives, influencing strategic decisions on customer loyalty programs.
* Documented comprehensive data workflows to ensure compliance with financial regulations and audit requirements.

**Education:**

**University of North Texas**

Master’s in data science

**Anil Neerukonda Institute of Technology and Sciences**

Bachelor of Technology (B.Tech) in Information Technology