

RAGIRI HIMADEEP

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PROFESSIONAL SUMMARY

Self-taught AI/ML Engineer and Data Scientist with a BBA in Business Analytics and over 3 years of rigorous self-study, delivering 30+ production-ready projects in Machine Learning, Deep Learning, NLP, Generative AI, and MLOps. Proficient in building scalable, end-to-end AI systems using PyTorch, TensorFlow, Hugging Face Transformers, LangChain, and cloud platforms such as AWS and Google Cloud Platform, with a proven track record in impactful projects like ResmoAI, MLOps Telecom Churn Detection, and E-commerce Review Sentiment Analytics Pipeline. Skilled in developing robust ML pipelines, cloud deployments, and advanced NLP solutions, I excel at transforming complex data into actionable insights. Certified by Stanford Online, DeepLearning.AI, and IBM in AI and Generative AI, I am driven by a passion for creating innovative, data-driven solutions that solve real-world challenges and deliver measurable business impact.

TECHNICAL SKILLS

Machine Learning & AI: Scikit-learn, XGBoost, PyTorch, TensorFlow, Keras, Transfer Learning, Statistical Analysis, Predictive Modeling, Data Visualization, Exploratory Data Analysis (EDA)

Data Engineering: Pandas, NumPy, Apache Airflow, Apache Spark, SQL (basic)

MLOps & DevOps: Docker, Kubernetes, MLflow, ZenML, GitHub Actions, CI/CD Workflows, Model Versioning, Monitoring

Cloud: Amazon Web Services (AWS), Google Cloud Platform (GCP), Firebase (Auth, Firestore, Storage)

NLP & LLMs: BERT, GPT, BART, LoRA, PEFT (Parameter-Efficient Fine-tuning), Named Entity Recognition (NER), Retrieval-Augmented Generation (RAG), Tokenization, Attention Mechanisms, ChromaDB, Hugging Face Transformers, LangChain, AI agents

Full Stack Tools: FastAPI, Flask, HTML/CSS/JS (basic), RESTful APIs

Visualization & Interactive Apps: Matplotlib, Seaborn, Streamlit (interactive dashboards), Gradio (AI model demos)

Programming: Python, SQL, Bash

PROFESSIONAL EXPERIENCE & PROJECTS

ResmoAI • Production-Ready AI System 07/2025 [GitHub](#)

- Engineered an AI-powered resume platform to analyze, optimize, and generate ATS-friendly PDF resumes with instant feedback and job match scoring.
- Technologies: Next.js, FastAPI, Firebase, Docker, Google Cloud Run, GitHub Actions
- Impact: Enhanced job application success through AI-driven formatting and keyword optimization.

MLOps Telecom Churn Detection • Production-Ready AI System 06/2025 [GitHub](#)

- Developed an end-to-end MLOps pipeline for telecom churn prediction, automating data ingestion, training, drift detection, and deployment.
- Technologies: ZenML, MLflow, GitHub Actions, Docker, AWS EC2, DynamoDB
- Impact: Ensured continuous model performance with automated retraining, reducing churn prediction errors.

E-commerce Review Sentiment Analytics Pipeline • Production-Ready AI System 07/2025 [GitHub](#)

- Built a scalable pipeline for real-time e-commerce review sentiment analysis with automated ETL and dashboard visualization.
- Technologies: Apache Airflow, Spark, Firebase, Streamlit, Docker
- Impact: Delivered actionable insights for e-commerce platforms, improving customer satisfaction analysis.

Airbnb New User Bookings • Machine Learning Project 07/2024 [GitHub](#)

- Predicted destination countries for new Airbnb users using advanced feature engineering and classification models.
- Technologies: XGBoost, Scikit-learn, Pandas
- Impact: Achieved high accuracy in destination predictions, enhancing personalized recommendations.

Big Mart Sales Prediction • Machine Learning Project 03/2024 [GitHub](#)

- Forecasted item sales at Big Mart using XGBoost regression, with robust preprocessing and encoding.
- Technologies: XGBoost, Pandas, Scikit-learn
- Impact: Improved inventory planning with high R^2 accuracy in sales forecasts.

Sentiment Analysis on IMDB Movie Reviews • Machine Learning Project 08/2024 [GitHub](#)

- Built a sentiment analysis model using Multinomial Naive Bayes on the IMDB dataset, with TF-IDF vectorization and hyperparameter tuning.
- Technologies: Scikit-learn, Pandas, Matplotlib, Seaborn, TF-IDF
- Impact: Achieved high accuracy in classifying movie reviews, enabling effective sentiment analysis applications.

Credit Risk Scoring System • Deep Learning Project 11/2024 [GitHub](#)

- Designed a neural network to classify loan statuses as "Fully Paid" or "Charged Off" with robust preprocessing.
- Technologies: PyTorch, Pandas
- Impact: Reduced potential financial losses through accurate credit risk classification.

Dog Breed Classifier • Deep Learning Project

11/2024 [GitHub](#)

- Developed a ResNet-50 model to classify 120 dog breeds, deployed via a Flask web app.
- Technologies: PyTorch, Flask, ResNet50
- Impact: Achieved high accuracy in real-time breed classification.

Face Recognition System • Deep Learning Project

12/2024 [GitHub](#)

- Built a comprehensive face recognition system with real-time webcam recognition and Flask web interface.
- Technologies: OpenCV, face_recognition, Flask, JSON, NumPy, Pandas
- Impact: Enabled accurate biometric identification with real-time capabilities.

BERT Emotion Detection • NLP Project

01/2025 [GitHub](#)

- Fine-tuned BERT to classify text into six emotions with 92% accuracy, deployed via Flask.
- Technologies: Hugging Face, BERT, Flask
- Impact: Enabled precise sentiment analysis for customer feedback applications.

Advanced Multi-Source RAG Chatbot • NLP Project

03/2025 [GitHub](#)

- Built a multi-source RAG chatbot for querying PDFs, YouTube, web, and Wikipedia, with a Gradio UI.
- Technologies: Mistral-7B, LangChain, Gradio, ChromaDB
- Impact: Provided accurate, context-grounded responses for research and education.

Multi-Agent System for Data Analysis • NLP Project

04/2025 [GitHub](#)

- Created a modular multi-agent system with Mistral-7B to automate data cleaning, EDA, and visualization.
- Technologies: Mistral-7B, LangChain, Gradio
- Impact: Saved hours of manual data analysis through intelligent automation.

EDUCATION

Parul University, Vadodara • Bachelor of Business Administration (Business Analytics)

08/2022 – 04/2025

- Relevant Coursework: Data Analytics, Statistical Modeling, Predictive Analytics, Data Visualization, Machine Learning Fundamentals, Business Intelligence, SQL & Database Management, Big Data Concepts, Python for Data Analysis, Operations Research, Strategic Management, and Production & Operations Management.

CERTIFICATIONS

• **Machine Learning Specialization** – Stanford Online & DeepLearning.AI (Coursera), 04/2024

Gained foundational knowledge in supervised and unsupervised learning—including linear/logistic regression, decision trees, clustering, dimensionality reduction, and recommender systems—using NumPy, scikit-learn, and TensorFlow for practical model building and deployment. Learned Silicon Valley best practices such as model tuning, evaluation, and a data-centric approach to improving performance.

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• **Deep Learning Specialization** – DeepLearning.AI (Coursera), 05/2024

Mastered neural network architecture, training techniques, and best practices—including initialization, regularization (L2, dropout), optimization algorithms (Momentum, RMSprop, Adam), hyperparameter tuning, batch normalization, and gradient checking—alongside advanced concepts like convolutional networks for computer vision and sequence models for NLP applications.

[View Certificate](#)

• **IBM Generative AI Engineering Professional Certificate** – IBM (Coursera), 06/2024

Developed hands-on skills in generative AI—prompt engineering, LLMs like GPT, retrieval-augmented generation (RAG), and LangChain—leveraging frameworks such as Hugging Face Transformers, PyTorch, and Flask to build and deploy production-ready generative AI agents.

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ADDITIONAL INFORMATION

Built 30+ production-ready AI projects, contributing to scalable and innovative systems.

Continuously upskilling through Coursera, Udemy, and AI research papers.

Actively seeking full-time roles and internships in AI/ML Engineering and Data Science.