

ABHISHEK PANT

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Technical Skills

Programming: Python (Pandas, NumPy, Seaborn, Matplotlib, Scikit-Learn Regression, Classification, Model Evaluation), SQL
Machine Learning & Deep Learning: TensorFlow, Transformers (Hugging Face), OpenCV
Natural Language Processing: LLM Fine-Tuning, RAG Systems, Embeddings, LangChain, ChromaDB
Data & Visualization: Data Cleaning, Feature Engineering, Exploratory Data Analysis (EDA), Matplotlib, Seaborn
MLOps & Deployment: MLflow, DVC, Docker, Kubernetes, CI/CD (GitHub Actions), Model Registry, Experiment Tracking, Monitoring
Tools & Platforms: Git, Jupyter Notebook, VS Code, AWS

Projects

Streamlit Automation for Machine Learning Tasks (Project Link) Nov 2025 – Dec 2025

- **Developed** a no-code Streamlit application to automate basic machine learning workflows.
- **Implemented** dataset selection, preprocessing (scaling, train/test split), and model training pipelines.
- **Integrated** multiple ML algorithms (**Logistic Regression, SVM, Random Forest, XGBoost, KNN**) for experimentation.
- Enabled interactive visualizations, classification reports, and accuracy metrics for model evaluation.
- **Designed** modular utility functions (**ml_utility**) to streamline data handling, training, and evaluation.

Tech Used: Python, Streamlit

Reddit Persona Generation Tool (LLM-based) (PROJECT LINK) June 2025 – July 2025

- **Designed** a system to analyze a user's Reddit posts and comments to generate a detailed persona profile.
- **Implemented** persona extraction using a **local LLM via Ollama**.
- **Extracted** attributes such as interests, profession, personality traits, and age group with source citations.
- **Structured** outputs for explainability and traceability.

Tech Used: Python, LLM (Ollama), NLP

Financial RAG Chatbot – Intelligent Document Processing & Retrieval (PROJECT LINK) Feb 2025 – Aug 2025

- Designed a financial document processing pipeline using a fine-tuned Qwen family LLM to extract key financial entities from PDFs into structured JSON.
- Integrated the financial LLM into a Retrieval-Augmented Generation (RAG) chatbot for domain-specific Q&A.
- Embedded curated financial content into ChromaDB and implemented semantic search with LangChain for context retrieval.
- Enabled grounded, explainable responses by combining extracted structured data with retrieved knowledge.

Tech Used: Python, LLM (Qwen, Ollama), LangChain, ChromaDB, NLP, Jupyter Notebook

MLOps Pipeline – Experiment Tracking & Deployment (PROJECT LINK) Jan 2026- Feb 2026

- Implemented an end-to-end machine learning workflow for a classification task using MLflow for experiment tracking and model registry.
- Automated hyperparameter tuning with GridSearchCV, logging each run's parameters, metrics, and artifacts.
- Containerized the application with Docker and deployed it locally for reproducible environments.
- Integrated GitHub Actions CI/CD to automate testing and deployment on every commit.
- Demonstrated model lifecycle management by promoting models from *Staging* to *Production* in MLflow Registry.

Tech Used: Python, Scikit-Learn, MLflow, Docker, GitHub Actions, Git

Education

Uttaranchal University

Master of Computer Applications(AI/ML)

Aug 2023 – June 2025

Dehradun, Uttarakhand

Certifications

- Oracle Cloud Infrastructure 2025 Generative AI Professional (1Z0-1127-25) – [Oracle](#)
- Oracle Cloud Infrastructure 2025 Data Science Professional (1Z0-1110-25) – [Oracle](#)
- Advanced AI and Machine Learning Techniques and Capstone – [Microsoft](#)
- Python – [HackerRank](#)
- Software Engineer Intern (Skill Certification) – [HackerRank](#)
- AWS – [Scaler](#)