ABINASH D

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Summary

Machine Learning Engineer with 3+ years of experience in designing and deploying AI solutions to production goes environments. Skilled in Deep Learning, NLP, MLOps, and predictive modeling. Experienced in building a scalable ML pipelines, optimizing model performance, and delivering end-to-end solutions. Passionate about developing the innovative and data-driven applications.

Skills

- **NLP & Deep Learning:** Transformers, BERT, RNN, LSTM, GPT, CNN
- **Machine Learning:** Regression, KNN, Clustering, Ensembles, Decision Trees
- **Programming:** Python
- **Libraries:** Scikit-learn, HuggingFace, PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, Seaborn
- **Frameworks:** FastAPI, ZenML, MLflow, LangChain, CrewAI
- **Platforms/Tools:** AWS, Docker, Git, DVC, MLOps

Experience

Accenture   **Sept 2022 – Present**
Machine Learning Engineer   *Chennai, India*

- **RAG System for Resume Intelligence**

  * Built the RAG system for resume ranking and job-role summarization, reducing HR screening time by 20%.
  * Implemented PDF ingestion, chunking pipeline, HuggingFace embeddings, and FAISS-based retrieval.
  * Developed FastAPI backend with custom ranking logic for accurate resume–job alignment.

- **CrewAI Multi-Agent Automation**

  * Built YAML-driven workflow using Searcher, Retriever, and Summarizer agents with Gemini 2.0 Flash.
  * Automated multi-step research processes, reducing manual effort from 20–30 minutes to under 10 minutes.
  * Designed modular agent/task configurations enabling scalable enterprise automation.

Projects

NLP Projects

- Developed a Next Word Prediction model from scratch using PyTorch and LSTM architecture to predict the next word in a sequence, improving text generation accuracy. GitHub Repo
  Tech Stack: Python, Scikit-learn, PyTorch

- Built a Fake News Detection system using RNN networks to classify news articles as real or fake, leveraging sequential text analysis for enhanced performance. GitHub Repo
  Tech Stack: Python, PyTorch, Keras

End-to-End Deployment (MLOps)

- Developed a production-ready spam classification project, implementing end-to-end MLOps practices to ensure reproducibility and scalability.
- Leveraged HuggingFace for advanced NLP models and ZenML for orchestrating ML pipelines, enabling automated workflows.
- Used DVC to manage dataset and model versioning, supporting iterative development and collaborative experimentation.
- Integrated CI/CD pipelines with GitHub Actions to automate testing and deployment of model services.
- Deployed FastAPI endpoints for the model, providing a robust and efficient interface for real-time inference. GitHub Repo
  Tech Stack: HuggingFace, ZenML, DVC, FastAPI

Education

Thiagarajar College of Engineering   **2018 – 2022**
Bachelor of Information Technology   *CGPA: 8.01*