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Professional Summary

I'm an **AI/ML Engineer** passionate about building **intelligent systems, personalized recommendations, and scalable AI solutions**. With expertise in **Machine Learning, Deep Learning, NLP and MLOps**, I thrive on solving complex problems using **Python, TensorFlow and cloud** technologies. I love optimizing AI workflows and bringing cutting-edge models to real-world applications.

Skills

Technical Skills:

- **DS/ML/NLP:** Machine Learning, Deep Learning, NLP
- **ML Frameworks/Modules:** Scikit-learn, PyTorch, Keras, NumPy, Pandas, Transformer
- **MLOps & CI/CD:** DVC, MLflow, Git Actions (CI/CD), Jenkins, Monitoring, Airflow
- **Programming & DB Languages:** Python, Flask, MySQL, MongoDB
- **Cloud based Deployment:** AWS, GCP, Git, Docker, Kubernetes, CI/CD
- **LLM Tools & Frameworks:** LangChain, OpenAI APIs, Hugging Face Models

Work Experience

AI/ML Engineer

Beworld Web Services, Hyderabad | Jun 2024 – Sept 2024

- Developed and optimized a **feed algorithm** to create **personalized user interest feeds**, enhancing engagement and content relevance.
- Implemented **machine learning models** for **recommendation systems**, analyzing user interactions to improve content ranking.
- Worked with **Python, TensorFlow, Scikit-learn, and NLP techniques** to build intelligent AI-driven solutions.
- Designed and deployed **scalable AI models** using **MLOps best practices**, including **MLflow, Docker, Kubernetes, and CI/CD pipelines**.
- Using **Flask, MongoDB**, and Python, we developed scalable backend services and deployed ML models on AWS using automated **CI/CD pipelines**.
- Collaborated with cross-functional teams to integrate AI-driven recommendations into **real-world applications**, improving user engagement.

ML Engineer

Tata Consultancy Services, Hyderabad | Jan 2022 – Feb 2024

- Enhanced underwriting accuracy and decreased fraudulent **claims** by using machine learning models for risk assessment and fraud detection.
- Developed predictive analytics tools to improve **policy pricing**, maximize profits, and reduce risk.
- In order to enhance **targeted marketing** and raise insurance product conversion rates, client segmentation models were created.
- Large-scale structured and unstructured insurance data processing is made easier with automated **ETL pipelines**.
- Worked with cross-functional teams to improve operational **efficiency** by incorporating AI-driven solutions into current insurance operations.

Projects

Hotel Reservation Cancellation Prediction - [LINK](#)

- Developed an **end-to-end machine learning solution** to predict hotel reservation cancellations, enabling proactive customer engagement and revenue optimization.
- Designed and implemented the **entire ML pipeline**, from **data ingestion (GCP)** and **preprocessing to model training and deployment**.
- Conducted **feature engineering, data versioning (DVC), and model versioning** for reproducible experiments.
- Implemented experiment tracking (**MLflow, CometML**) and automated model deployment using **CI/CD (Jenkins, Docker, GCP Run)**.
- Built a **Flask-based web application** with an interactive UI (**HTML, CSS**) for real-time predictions.

Customer Churn Prediction - [LINK](#)

- Using **Artificial Neural Networks (ANN)**, an interactive tool for predicting client attrition was developed.
- Using **Streamlit**, an intuitive user interface was created that enables users to engage with predictions, upload datasets, and display insights.
- **Pandas** and **NumPy** were used to implement data preprocessing **pipelines**, guaranteeing effective feature engineering and model training.
- **TensorBoard** integration for real-time training **metrics** display and performance **tracking**.
- Streamlit Cloud was used to **deploy** the solution, allowing for easy accessibility and intuitive engagement.

Certifications

- Full Stack Data Science Certificate | **Ineuron** | [link](#)
- Complete ML, DL, NLP Bootcamp Certification | **Udemy** | [link](#)
- Python | **Kaggle** | [link](#)

Education

Bachelor of Technology in Computer Science

Lovely Professional University, Punjab | 2020
