ANAND GEED

Machine Learning Engineer, NewGen Software

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SUMMARY

I am a machine learning engineer with expertise in NLP and computer vision-driven data extraction. I am proficient in Python, SQL, and essential data science tools, including NumPy, Pandas, Tableau, PyTorch, and TensorFlow. I hold a Post-Graduate Degree in Data Science and Analytics from IIIT Allahabad.

EDUCATION

M.Tech in Data Science and Analytics

Indian Institute of Information Technology, Allahabad

2021 – 2023 CGPA : 8.39

B.Tech in Information Technology

Rajiv Gandhi Prodyugiki Vishwavidyalaya, Bhopal

2017 – 2021 CGPA : 7.45

EXPERIENCE

Machine Learning Engineer

NewGen Software Technologies Limited

Jun 2023 – Present

- Integrated LayoutLM, LayoutLMv2, LayoutLMv3, and Donut models into IDP solutions for efficient extraction of data from complex documents.
- Implemented OCR engines (Google Vision, Tesseract) and developed zone-wise OCR capabilities for precise text extraction.
- Conducted model inference using NVIDIA Triton Inference Server and deployed solutions in production environments using Kubernetes.
- Played a key role in developing Trade Finance and End-to-End Doc Check platforms, integrating trade rules (UCP LC) to detect document discrepancies.
- Integrated object detection models (Faster R-CNN, YOLOv7, SSD) for accurate visual data extraction.
- Integrated Table Transformer (TARTAR) model for table detection and extraction from documents.
- Worked on Retrieval-Augmented Generation (RAG) techniques, vector databases, and large language models (LLMs) like LLaMA and GPT to enhance data retrieval and AI-driven text generation capabilities.

Machine Learning Intern

FeyNN Labs Consultancy Services

Jan 2023 – Mar 2023

- Developed AI product prototypes and business models, leveraging ML for market segmentation and analysis.
- Integrated AI solutions seamlessly into existing business frameworks.

Research Intern

Madras Scientific Research Foundation

Nov 2021 – Mar 2022

- Implemented machine learning algorithms and deep learning models, preparing and analyzing data to identify patterns and improve productivity.
- Conducted research on advanced solutions from machine learning papers and journals to enhance model performance and optimization.

SKILLS

Python | Numpy | Pytorch | TensorFlow | OpenCv | Kubernetes | Google-Vision | Pytesseract | SQL | Pandas | Tableau | NLTK | Milvus | LangChain | Llamaindex | Huggingface | TruLens | RAG | LLMs

PROJECTS

A Personalized Cancer Diagnosis using Text based Clinical Data with Machine Learning Models

nltk, spacy, numpy, scikit-learn

06/2023 – 12/2023

Engineered a state-of-the-art machine learning model for personalized cancer diagnosis, classifying clinically actionable genetic mutations into nine distinct categories based on text-derived clinical evidence.
DOI: 10.1109/OCIT59427.2023.10430572

Credit Card Fraud Detection using Different Machine Learning

pandas, scikit-learn

01/2022 – 06/2022

Created machine learning models to recognize fraudulent credit card transactions, ensuring that customers of credit card companies are not charged for items they did not purchase.

Human Activity Recognition on Smartphones Dataset Using LSTM

tensorflow, keras

01/2023 – 05/2023

Developed a robust model to predict human activities (e.g., walking, walking upstairs, walking downstairs, sitting, standing) by harnessing data from smartphone sensors, including accelerometers and gyroscopes.

CERTIFICATIONS

- Mathematics for Machine Learning and Data Science Specialization
- Machine Learning Specialization
- Deep Learning Specialization
- Natural Language Processing Specialization