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EXPERIENCE

Machine Learning Engineer

April 2021 – Present

Riktam Technology

Hyderabad, India

- Contributed to the development and deployment of an AI assistant for meeting support and analysis, encompassing automated summary generation, action point collection, and topic extraction. Achieved 95% accuracy in extracting action items and delivering meaningful summaries. Leveraged various NLP techniques and algorithms, including Summarization (BART), action items (BERT), and topic extraction (T5). Implemented the backend API using FastAPI and deployed the solution on AWS EC2 instances. Ensured secure and scalable storage of meeting transcripts and summaries in an S3 bucket. Utilized Git for version control and collaboration, resulting in increased collaboration effectiveness and improved meeting productivity, saving preparation time with better action item follow-up efficiency.”
- Implemented an automated resume-parsing system using BERT, resulting in a 5x increase in hiring process efficiency. Utilized AWS EC2 for scalable computing and stored resume data in an S3 bucket. Significantly reduced resume review time by 20x for HR personnel, processing resumes efficiently within seconds.

Data Scientist

July 2022 – April 2023

Silver Egg Technology

Tokyo, Japan

- Collaborated with the data science team on research and development of projects focused on recommendation systems.
- Involved in research and testing algorithms like SaSrec, Transformer4rec, and Bigram-based models.
- Contributed to data collection, preprocessing from different merchants, and training and deployment of promising recommender algorithms.
- Implemented improvements that resulted in a significant 20% increase in click-through rates (CTR) and conversions (CVR).

Machine Learning Intern

Dec 2020 – April 2021

Tigersheet Inc.

Hyderabad, India

- Developed end-to-end automatic background removal app using ModNet.
- Developed Sentiment Analysis tool using transformer based model BERT.
- Involved in Face App Prototype Development using GAN's like StyleGAN.

PROJECTS/POCS

Paraphraser | *Python, PyTorch, transformers, FastAPI, HTML, CSS, js*

- Developed a paraphrasing tool powered by transformer-based T5 model. Gathered and preprocessed a diverse opensourced dataset for training
- Utilized the trained T5 model to create a user-friendly web application, employing FastAPI to deploy a REST API for seamless interaction.
- Tested and refined the application extensively, ensuring accurate and semantically coherent paraphrased outputs for various input phrases.

Text2SQL | *Python, PyTorch, SmBop, Sql-lite, Git*

- Involved in R&D of text-to-SQL , SmBop model.
- Performed finetuning on custom dataset and created text-to-SQL tool.

Event Scheduler using GPT-3 | *Python, GPT-3, Git*

- Developed end-to-end GPT-3 powered event scheduler which takes text as input and schedule event
- Performed few shot finetuning on custom dataset.

Real Estate Image Classification | *Python, ResNet, FastAPI, CNN, Git*

- Created a comprehensive image classification model employing a CNN-based ResNet architecture.
- Attained an impressive 90% accuracy rate in the detection of inappropriate images, leading to streamlined real estate listing procedures and diminished manual review.
- Significantly expedited the real estate listing process by efficiently identifying unsuitable images, thereby enhancing operational efficiency.

Information Retrieval Engine | *Python, GPT-4, LangChain, FastAPI*

- Designed and created a cutting-edge information retrieval tool by skillfully incorporating Langchain technology and harnessing the capabilities of OpenAI’s GPT-4 model.
- Successfully facilitated the efficient extraction of pertinent information from lengthy documents, streamlining research and analysis workflows.
- Engineered a user-friendly tool for effortless retrieval of information from extensive content, contributing to improved data accessibility and decision-making processes

AI Tutor | *Python, GPT-4, Elevenlabs, FastAPI*

- Developed and implemented an AI chat-based tutor, leveraging Elevenlabs (text-to-speech) and OpenAI’s GPT-4 model.
- Customized learning interactions to cater to individual learning styles, ensuring tailored explanations and guidance.
- Enabled seamless access to learning support 24/7, offering assistance beyond traditional learning hours.

sectionTechnical Skills

Languages and Libraries: Python, PyTorch, TensorFlow, Keras, Transformers, Sci-kit Learn, Numpy, Pandas, Matplotlib, Seaborn, HuggingFace, NLTK, Gensim, OpenCV, Selenium

Technologies and Algorithms: Transformers (BERT, BART, T5, GPT-1,2,3,4, etc.), OpenAI, Hugging Face, LangChain, LLM’s, Generative AI, RNN, CNNs (VGG, ResNet, etc.), Stable Diffusion, GAN’s

Development Tools and Platforms: Jupyter Notebook, Git, GitHub, AWS (Amazon Web Services), GCP (Google Cloud Platform), Google Colab, PyCharm, VS Code, Docker, Linux

EDUCATION

Maharshi Dayanand University <i>Bachelor of Technology in Computer Science & Engineering</i>	Rohtak, Haryana <i>Aug. 2017 – July 2021</i>
SDDTIC College <i>Intermediate</i>	Gorakhpur, U.P <i>July 2014 – May 2016</i>