

Raj Das

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EDUCATION

VSSUT, BURLA

B.TECH (MME) | 2018-2022

CGPA: 8.18

D.A.V. PUBLIC SCHOOL, PKT

INTERMEDIATE | 2018

Percentage: 77.6%

D.A.V. PUBLIC SCHOOL, PKT

HIGH SCHOOL | 2016

CGPA: 9.4

LINKS

LinkedIn:// [rajdas293](#)

Website:// [bit.ly/rajdas293](#)

Github:// [rajdas2001](#)

COURSEWORK

- Machine Learning Specialization
- Deep Learning Specialization
- Natural Language Processing
- LLMs and Generative AI
- Introduction to Git and GitHub

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Salesforce Certified AI Associate

SKILLS

- Python
- SQL
- Data Science
- Machine Learning
- Deep Learning
- Microsoft Power BI
- Microsoft Excel
- AWS
- Git and GitHub

EXPERIENCE

WIPRO | DATA SCIENTIST

Mar 2023 – Present | Bengaluru

- Developed and implemented an NLP-powered chatbot for an insurance company, designed to answer customer questions about policies, change details in policies, initiate claims, and provide general support. This helped reduce the call center volume by 15%.
- Developed a sentiment analysis model to analyze customer feedback on products, resulting in a 20% improvement in customer satisfaction score.

PROJECTS

RETRIEVAL AUGMENTED GENERATION (RAG) WITH LLAMA 2

LLAMA-2-7B-CHAT-GGML, LANGCHAIN, CTRANSFORMERS, CHROMADB

- Developed and implemented Retrieval Augmented Generation (RAG) using Llama-2-7B-Chat-GGML model to integrate relevant knowledge bases, thus improving the factual accuracy and completeness of responses.
- Increased the model's ability to answer complex and open-ended questions by 30%.
- Reduced memory footprint by 46.96% using quantized GGML model.

HUMAN SENTIMENT ANALYZER

PYTHON, HUGGING FACE - BERT

- Developed a text classification model based on transformers architecture.
- The model achieved an accuracy of 90.8% in identifying text polarity.
- The project can be used for preventing cyberbullying, brand/product analysis and feedback form analysis.

IPL DATA ANALYSIS

PYTHON, PANDAS, MATPLOTLIB, SEABORN, SCIKIT-LEARN

- Analyzed historical match data (2008-2017) to identify player statistics and key factors influencing match outcomes.
- Utilized machine learning models (Logistic Regression, Random Forest) to achieve an accuracy of 86% in predicting match winners.
- Identified key indicators like toss win impact, home advantage, and top batsman/bowler performance as significant predictors.

CRACK DETECTION ON SURFACES

PYTHON, TENSORFLOW

- Developed a model to identify cracks on concrete surfaces for early crack detection and maintenance of the Hirakud Dam, Odisha.
- The model is built on top of a pre-trained CNN model called Inception.

IMAGE GENERATION USING MIN(DALL.E)

MIN(DALL.E)

- Developed an image generation model using min(DALL.E), enabling users to create high-quality and diverse visuals from textual descriptions.