

JUDI RISPAH

Data Scientist

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<https://github.com/judirispah> Tirunelveli

SKILL

PYTHON:

Streamlit ,SQLite3 ,Flask ,OOPS ,Fast API

MLOPS TOOLS:

Git ,Docker ,DVC ,MLFlow ,Git Action ,EC2

MACHINE LEARNING:

Regression ,Classification ,Clustering , Ensemble Methods ,Evaluation Metrics

DEEP LEARNING:

ANN ,CNN ,Transfer learning ,Tensorflow , Optimization ,GANS

NATURAL LANGUAGE PROCESSING:

RNN ,LSTM ,GRU ,EncoderDecoder, Transformers ,Textpreprocessing ,Huggingface

GEN AI:

RAG ,LangChain ,LLMs ,Tools & Agents ,Fine Tuning

BID DATA:

Hadoop ,Spark ,Hive ,MapReduce

DATA ANALYTICS:

SQL Server ,MongoDB ,Statistical Analytics ,Pandas ,Matplotlib ,seaborn ,Snowflake

INTERNSHIP:

FRONT-END DEVELOPER USING FLASK

04/2022 05/2022

Iconix software solution,Tirunelveli

COURSES/CERTIFICATES:

Full Stack Data Science Bootcamp

iNeuron

2022 2024

Complete Generative AI Course With Langchain and Huggingface

2025

Complete python course

2024

SUMMARY

As a recent graduate with a passion for the world of Machine Learning , Deep Learning ,and Natural Language Processing ,I have experience building end-to-end ML projects and successfully deploying them on cloud platform. This hands-on experience has equipped me with a practical understanding of model development, modular coding, deployment, and MLOps practices. My journey has led me to dive into the realms of Big Data ,Agentic AI and Generative AI, where I'm continuously expanding my toolkit and exploring new frontiers in technology.I'm eager to connect with like-minded professionals and explore opportunities where I can contribute my fresh perspective

EDUCATION

Bachelor of Engineering in Electronics and Communication Engineering

Francis Xavier Engineering College ,Tirunelveli CGP-8.87 2021 06/2024

Secondary School Leaving Certificate (SSLC)

Rosemary Model School,Tirunelveli percentage-91.3% 2020 2021

Higher Secondary Certificate (HSC)

Rosemary Model School,Tirunelveli percentage-95.6% 2017 2018

PROJECTS

Network Security System – Phishing Detection

<https://bit.ly/3Qs8EHb>

- Identifies phishing websites in real-time using **31 key features** to enhance **network security**.
- Enhances internet security by **automating phishing detection** and preventing online scams. Extracted phishing dataset from MongoDB using ETL and converted it into a structured CSV file.Imputer were handled and stored as object
- Trained multiple ML models, tracked experiments using MLflow, and achieved **97.8% accuracy**.
- Implemented **automated model versioning**: The best-performing model is **continuously uploaded to S3** after each training cycle.
- GitHub Actions** automates the CI/CD pipeline. The solution is containerized using **Docker** and deployed on **AWS EC2** for scalability.

Chest Disease Classification

<https://bit.ly/3CaXByP>

- Developed a **classification model** using achieving **96% accuracy** in identifying multiple diseases from CT scan.
- Can assist **remote areas with limited radiologists** by providing automated diagnoses.
- Users upload CT scan images through the **Flask** interface, and the model predicts the disease using the **transfer learning** model. The prediction result is returned to the user in real-time, displaying the disease classification.
- Utilized **MLflow** for experiment tracking, comparing different models, and optimizing hyperparameters and **DVC** for version control.
- GitHub Actions** automates the CI/CD pipeline.

Named Entity Recognition (NER) for News & Intelligence Analysis

🔗 <https://bit.ly/43kRtiI>

- Develop an **NER-based system** that **automatically identifies** and classifies key entities from news articles, intelligence reports, or social media.
- Governments, journalists, and analysts can quickly extract and categorize key entities (locations, organizations, geopolitical entities, time expressions) from large volumes of news articles.
- Fetched and pre-processed **large-scale news datasets** directly from **Amazon S3**. Used **Hugging Face Transformers** to train a **custom BERT model** for entity extraction.
- **Performance:** Achieved **93% accuracy** after **15 training epochs**.

Multilingual Voice AI Assistant

🔗 <https://bit.ly/3PMYHIH>

- Developed a **AI assistant** named as RISPAAH that supports text and voice responses, enhancing user engagement in 5+ languages
- Helps individuals with **visual impairments** or **motor disabilities** by providing a hands-free voice interface.
- **Users speak or type their queries via Streamlit app, and the assistant processes the input using Gemma LLM via Groq API, improving response accuracy and speed .**
- Enabled **chat history retention** and **conversation memory**, allowing the assistant to recall and refer to past conversations, creating a **personalized user experience** that improves engagement.

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.