

JUDI RISPAH G

Data Scientist

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

SKILLS

PYTHON:

Streamlit ,SQLite3 ,Flask ,OOPS ,Fast API

MLOPS TOOLS:

Git ,Docker ,DVC ,MLFlow ,Git Action
,EC2 ,S3 ,ECR

MACHINE LEARNING:

Regression ,Classification ,Clustering ,
Ensemble Methods ,Evaluation Metrics
,Data preprocessing ,Feature selection

DEEP LEARNING:

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

NATURAL LANGUAGE PROCESSING:

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

GEN AI:

RAG ,LangChain ,Open AI ,Tools &
Agents ,Fine Tuning ,VectorDB ,Llama
,LLMs ,Crew AI ,Diffusion models ,OCR,
Prompt Engineering ,Whisper

BID DATA:

Hadoop ,Pyspark ,Hive ,MapReduce

DATA ANALYTICS:

SQL Server ,MongoDB ,Statistical
Analytics ,Pandas ,Matplotlib ,seaborn
,Snowflake ,Numpy ,Hypothesis Testing

INTERNSHIP:

FRONT-END DEVELOPER USING FLASK

04/2022 - 05/2022
Iconix software
solution,Tirunelveli

Designed & developed a
college website using Flask,
SQL, HTML, CSS,
Bootstrap.Implemented user
authentication & dynamic
content rendering

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		2020 - 06/2024
Secondary School Leaving Certificate (SSLC)			
Rosemary Model School,Tirunelveli	percentage-91.3%		2019- 2020
Higher Secondary Certificate (HSC)			
Rosemary Model School,Tirunelveli	percentage-95.6%		2017 -2018

PROJECTS



Network Security System – Phishing Detection

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

- Implemented a modular coding approach in a phishing detection system, 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.
- For **data drift detection**, it leverages **Evidently AI** to monitor distribution shifts and ensure model reliability
- 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 with modular coding approach.
- 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 with modular coding approach.
- 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** names as **RISPAH** 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.

COURSES/CERTIFICATES:

Full Stack Data Science Bootcamp - iNeuron	📅 2022 - 2024	-
Complete Generative AI Course With Langchain and Huggingface- udemy	📅 2025	
Complete python course - udemy	📅 2024	-

Declaration

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