

USAMA PUWARD

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🏠 Colombo

PROFILE - ([PORTFOLIO](#))

Computer Science Undergraduate, Machine Learning and AI Enthusiast with a strong passion for applying ML and AI techniques to real-world projects. Skilled in developing efficient solutions and eager to innovate within the field of ML and AI.

CERTIFICATIONS

30 Days MasterClass in Artificial Intelligence
NoviTech - 2024

Machine Learning Specialization
DeepLearning.AI and Stanford | Online - 2024

1. Supervised Machine Learning: Regression and Classification

2. Advance Learning Algorithms

3. Unsupervised Learning, Recommenders, Reinforcement Learning

TensorFlow Developer Professional Certificate(4 courses)
DeepLearning.AI - 2024

Azure Fundamentals Cloud Skills Challenge
Microsoft - 2024

Azure Data Fundamentals Challenge
Microsoft - 2024

Version Control (GIT)
Meta - 2024

Django Web Framework
Meta - 2024

React Basics, Advanced React, React Native, Programming with JavaScript
Meta - 2024

PROFESSIONAL EXPERIENCE

Research Projects – UCSC *Data collector, Annotator* | Apr 2023 – Dec 2023

Full Stack Developer *Freelance* | Dec 2023 – May 2024

EDUCATION

B.Sc. Computer Science *University of Colombo School of Computing* | 2022 - Present

TECHNICAL SKILLS

Languages: JavaScripts, Python, Java, C++

ML Tools & Libraries: scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib

DevOps and Containerization: Docker

Cloud Platforms: Microsoft Azure

Version Control: Git, GitHub

Frontend Libraries/Frameworks: React, React Native, SCSS, Tailwind CSS, Bootstrap

Backend Frameworks: Node.js, Express.js, Spring Boot, Python Fast API, Django

Databases: MySQL, PostgreSQL, MongoDB

Other Skills: Team Work, Problem Solving, Analytical Thinking, Adaptability, Communication (English, Sinhala, Tamil)

PROJECTS - [GitHub](#)

NLP System for Podcast Chatbot: *Flask* | *TF-IDF* | *VADER* | *NLTK*

- Develop an NLP system that enables natural conversational experiences using podcast transcripts. The chatbot will accurately answer questions, identify and attribute responses to the correct speakers, and provide links to YouTube videos. ([Chatbot](#))

RAG Pipeline for PDF Analysis: *LangChain* | *Google GEN-AI* | *FIASS* | *Streamlit*

- This project is a RAG (Retrieval-Augmented Generation) pipeline that extracts and processes text, tables, and images from PDFs, enabling users to query the extracted information through a conversational interface. It combines multi-modal embeddings with a Google Gen AI-powered question-answering system. ([RAG Pipeline - Chatbot](#))

30 Days MasterClass in Artificial Intelligence:

- Face Detection and Recognition, Object Tracking, Image Classification, HandWriting Recognition, Email Spam Detection, ...

Full Stack Projects:

- Travel Point([Mobile](#),[Web](#),[Backend](#)), [Eats Robbers](#), [ClubHub-Central](#)

REFERENCE

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