

Khambampati Subhash

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Summary

AI enthusiast with hands-on experience in developing solutions using machine learning, deep learning, and natural language processing. Worked on healthcare AI projects, winning awards in hackathons and contributing to research. I'm committed to advancing AI for practical use, combining technical expertise with a strong drive for meaningful change. Always eager to contribute to transformative projects.

Education

Amrita Vishwa Vidyapeetham	09/2021 – 05/2025
BTech in Artificial Intelligence - Amritapuri, Kerala	GPA: 8.9
Sri Chaitanya junior College	03/2019 – 06/2021
Intermediate MPC - Hyderabad, Telangana	Percentage: 97

Internship

AI Intern	Remote
Margati	08/2024 – Present
<ul style="list-style-type: none">Developed a retrieval system to optimize output and reduce OpenAI calls, significantly reducing cost.Extracted relevant information from web content, integrating it seamlessly with core software.Optimized prompts for improved search results and employed DeepEval for LLM output evaluation.	
Healthcare AI Club Member	Amritapuri, Kerala
Amrita WNA	04/2023 – Present
<ul style="list-style-type: none">Secured 18th globally in the PhysioNet Challenge 2023 for healthcare AI research.Engaged in hackathons, paper publications, and AI projects in healthcare.Currently doing a final year project under the mentorship of a club professor, focused on healthcare AI.	

Achievements

Sustainable Development Ideathon 1st Prize	06/2024
<ul style="list-style-type: none">Proposed an AI-powered system, automating pest control and soil analysis, increasing yields by 20%.Provided market forecasts and personalized support for 50+ farmers to optimize productivity.	
Google Build with AI GDG Kochi 2024 2nd Runner Up	04/2024
<ul style="list-style-type: none">Built a Streamlit app using Gemini and Google Cloud with features like an AI tutor, quiz generator, and PDF chatbot, completed in 24 hours during a hackathon.	
GE Healthcare Hackathon 1st Runner Up	08/2023
<ul style="list-style-type: none">Created an AI solution balancing precision and explainability, achieving 60% accuracy in ECG classification.Leveraged explainable methods for interpretability, improving decision-making in healthcare.	

Skills

Programming Languages: Python

Artificial Intelligence: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Large Language Models, LangChain, Pytorch, Tensorflow

Development: HTML, CSS, JavaScript, React, NodeJS, FastAPI, Flask

Tools and Databases: Github, Docker, RabbitMQ, Linux, MongoDB, redis

Soft Skills: Teamwork and Collaboration, Continuous Learning, Calm Personality

Projects

Fine-Tuned LLaMA-3 on Medical Data using Unsloth	05/2024
<ul style="list-style-type: none">◦ Fine-tuned LLaMA-3 with Unsloth and SFT Trainer, increasing model efficiency for medical tasks by 15%.◦ Leveraged Hugging Face dataset, improving medical dialogue accuracy by 20% in context-specific responses.	
Saraswati AI	04/2024
<ul style="list-style-type: none">◦ Developed an AI platform using Gemini and Streamlit for personalized tutoring and quizzes.◦ Created a path planner and interview assistant for tailored learning experiences.◦ Aims to enhance education access in low-income nations by affordable, personalized learning tools.	
A Prompt Based XAI Tool	08/2023
<ul style="list-style-type: none">◦ Built a Streamlit app that uses a CNN 1D model to classify ECG data with 60% accuracy.◦ Included a Falcon 7B LLM chatbot to improve access to medical information.◦ Helps patients and doctors understand health data better and make informed decisions.	

Publications

CureNet: Improving Explainability of AI Diagnosis Using Custom Large Language Models	03/2024
IEEE SmartGen Con Link 🔗	
Frequency and Time Domain EEG Analysis for Prognostication of Postanoxic Comatose Patients	12/2023
IEEE CINC, Scopus Index Link 🔗	

Workshop

AI in Healthcare	04/2023
<ul style="list-style-type: none">◦ Led hands-on sessions, mentoring over 40 students in practical exercises and troubleshooting.◦ Organized materials and resources for an optimal learning environment during the 3-day workshop.◦ Built connections with students and learned valuable teaching experience.	

Community Outreach

Student Social Responsibility (SSR)	09/2023
<ul style="list-style-type: none">◦ Contributed to AI awareness initiatives at Queen Mary High School and ZPHS Ethamukkala.◦ Empowered over 150 students with AI fundamentals and showcased real-world applications such as GPT, humanoid robots, AI image generators, voice cloning, and DeepFake technology.◦ Our primary goal is to raise AI awareness among children, encouraging them to use AI for future innovation.	

Certificates

◦ Intermediate Deep Learning with PyTorch DataCamp 🔗	05/2022
◦ Introduction to TensorFlow in Python DataCamp 🔗	04/2024
◦ Introduction to Deep Learning in Python DataCamp 🔗	03/2024

Final Year Project

MediScribe	09/2024
<ul style="list-style-type: none">◦ Currently developing a healthcare application that enables patients to book appointments and access personal health records seamlessly. The project leverages AI for voice transcription and summarization to reduce documentation time by over 50% and minimize error rates from 10-15% to below 5%.	

Contact Me

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