






PV ADITHIYAN

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EDUCATION

B.Tech in Artificial Intelligence Engineering at **AMRITA VISHWA VIDYAPEETAM** 2022 - present
(GPA: 8.62/10.0)

Higher Secondary Education at **NARAYANA OLYMPIAD SCHOOL - CBSE** (81%) 2022

WORK EXPERIENCE

Machine Learning Intern (Project Lead), Infosys Springboard  Oct 2024 - Dec 2024

- Developed and deployed an end-to-end obesity classification system using machine learning and generative AI, integrating LangChain with Google Gemini for personalized health suggestions, and achieving 92% accuracy through advanced preprocessing, hyperparameter tuning, and a user-friendly Flask-based web app deployed via Render with CI/CD pipelines for real-time predictions.

Technical Co-ordinator, Cognizance Amrita Jan 2024 - present

- Organized and led workshops, events, and peer-led study sessions on Data Structures, Computer Vision, and Machine Learning, enhancing peer learning and technical proficiency.

PROJECTS

A.I.A.R.A - The Social Robot

Python, Flask, Gemini Pro API, Whisper, OpenCV, YOLOv8, HTML, CSS, JavaScript

- Built an AI-powered web interface for the social robot AIARA, achieving 95% accuracy in facial recognition, 90% in emotion perception, and a 7% word error rate in speech recognition.
- Designed animated avatars that dynamically express 6 emotions based on user interactions.

Advanced Chess Game Analytics Pipeline Using Apache Spark

Apache Spark, PySpark, Python, Matplotlib, Pandas, SQL, Linux

- Built a scalable pipeline using Apache Spark to analyze 10M+ chess games, revealing rare chess patterns and providing insights into game length, critical moves, optimal resignation moments, the impact of time controls, and opening move effectiveness, enhancing decision-making through data-driven analysis.

Multimodal Code-Mixed Medical Query Summarization

ViT, DistilBART, PyTorch, torchvision, PIL, scikit-learn, pandas

- Engineered a lightweight multimodal pipeline by combining Vision Transformer and DistilBART to summarize code-mixed Hindi-English medical queries from both textual and image inputs.
- Achieved an impressive ROUGE score of 60.09, BLEU score of 36.20, and BERTScore of 0.9192, reflecting the model's strong fluency, semantic alignment, and summarization accuracy.

SKILLS

Areas of Interest: Machine Learning, Computer Vision, Advanced Data Structures




Programming Languages: Python

Artificial Intelligence and Data Science: TensorFlow, Keras, Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, OpenCV, NLTK, spaCy.

Web Development: HTML5, CSS3, JavaScript, MySQL.

Tools: Git, Apache Spark, Hadoop, Microsoft Office, GitHub, ROS (Robot Operating System), Postman.

CERTIFICATIONS AND ACHIEVEMENTS

- Certification in **AWS Academy Cloud Foundations** course from AWS. 
- Salesforce AI Associate** showcasing expertise in AI fundamentals, ethics, and CRM AI capabilities. 
- Certification in **Generative AI with Large Language Models** from DeepLearning.AI and AWS. 
- Published research papers indexed in **IEEE Xplore**, showcasing research contributions. ([View publications here](#))
- Secured First Place in **Colay 3.0**, a coding relay competition at Tantrotsav 2025, a national-level tech fest.
- Secured First Place in **Tech Trivia**, a Technical Quiz Competition, organized by CEG, Chennai.