ATHULYA B VIJAY

AI ENGINEER

CONTACT

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EDUCATION

KTU UNIVERSITY

Bachelor of Technology (B.Tech) in Computer Science & Engineering
ICCS College of Engineering and Management | Graduated May 2024 | CGPA: 7.02

SKILLS

Technical Skills:

- Programming Languages: Python, C++, JavaScript
- Machine Learning & AI: Deep Learning, NLP, LLMs, Reinforcement Learning, Model Optimization
- Libraries & Frameworks: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas
- Software Development: Data Structures & Algorithms, Object-Oriented Programming (OOP), API Integration
- Data Science & Analytics: Data Processing, Visualization (Matplotlib, Seaborn), Statistical Analysis
- Tools & Technologies: Git, SQL, Database Management, Cloud Computing (AWS, GCP), Kubernetes, FastAPI

Soft Skills:

- Problem Solving | Analytical Thinking | Attention to Detail | Teamwork | Time Management | Communication

PROFILE

AI Engineer and Python Developer specializing in Machine Learning, Deep Learning, NLP, and Data Science. Skilled in TensorFlow, PyTorch, OpenAI API, and LangChain, with hands-on experience in AI-driven automation, chatbot development, and model optimization. Passionate about developing intelligent solutions to solve real-world challenges.

PROFESSIONAL EXPERIENCE

AI Engineering Intern

ATEES Global, AI Intern (Dec 2024 – Present)

- Developed and deployed machine learning models, increasing prediction accuracy by 20% through feature engineering and hyperparameter tuning.
- Implemented image recognition models using TensorFlow, reducing classification errors by 15%.
- Enhanced AI model performance by 30% through data preprocessing and model optimization techniques.
- Debugged and optimized existing AI pipelines, reducing execution time by 40%.

Python Development Intern

TECHPLEMENT. | SEP 2024 - OCT 2024

- Automated repetitive tasks using Python, reducing manual effort by 50%.
- Built and maintained a Contact Management System, improving data retrieval speed by 40%.
- Developed an Automatic Bulk Email Sender, cutting down email processing time by 60%

AI Research Intern

ASIMOV ROBOTICS| FEB 2024 - APR 2024

- Researched and optimized robotics machine learning algorithms, leading to a 25% improvement in robotic perception accuracy.
- Developed reinforcement learning models to enhance decision-making capabilities in autonomous systems.
- Conducted experiments on real-world robotics datasets, improving real-time processing speeds by 35%.

CERTIFICATIONS

- Google WOW Hackathon - Top 30 Teams
- Udemy (2024) :
  Master the Basics of Programming
  Automated with Python
  100 days of code
- Avodha (2024):
  Python and Django

ACCOMPLISHMENT

- Paper Presentations : Muthoot Institute of Technology and Science, January 3, 2023
- NSS Volunteer Certificate : National Service Scheme (NSS) Volunteer, 2021 – 2023
- Google Developer Students Club : Member, 2022-2023 | Technical Executive, 2023-2024
- Workshops
  Artificial Intelligence | Kotlin | Blockchain | ML
- ML Training
  Conducted a 5-day Machine Learning Class.

LANGUAGES

- English: Fluent
- Malayalam: Native
- Hindi: Intermediate
- German: Beginner

REFERENCE

📩 Jiji A J | Assistant Professor, ICCS College of Engineering & Management
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PROJECTS

Virtual Reality-based Mechanical Laboratory | Nov 2022 - Jan 2023

- Technologies Used: Unity, VR
- Created an immersive VR-based mechanical laboratory, improving student engagement by 60%.

AI Healthcare Chatbot Application | Jan 2024 - May 2024

- Technologies Used: Flutter, API Integration, Firebase
- Designed and implemented an AI-powered healthcare chatbot using Flutter, integrated with APIs and Firebase to provide real-time patient support and medical information.

Custom AI Healthcare Chatbot | Apr 2024 - May 2024

- Technologies Used: Python, LangChain, Streamlit, OpenAI API
- Developed a custom AI chatbot for healthcare, enabling real-time medical assistance.
- Optimized conversational AI flow, reducing response time by 45%.

Contact Management System | Sep 2024 - Sep 2024

- Technologies Used: Python, Tkinter, SQLite
- Independently developed a Contact Management System using Python and Tkinter for a seamless user interface, with SQLite for efficient contact data management.

Automatic Bulk Email Sender | Sep 2024 - Oct 2024

- Technologies Used: Python, SMTP, Tkinter, SQLite
- Collaborated on the development of an Automatic Bulk Email Sender using Python, optimized with SMTP for email sending, Tkinter for the UI, and SQLite for managing email data.

AI-Driven Text & Image Classification System

- Technologies Used: Python, Scikit-learn, TensorFlow, Keras, Spacy, NLP, Matplotlib, OpenCV
- Developed an AI system for spam detection, image recognition, and stress analysis using ML and NLP.
- Built a spam detection system with NLP, improving classification accuracy by 92%.
- Developed image recognition models, achieving an 85% accuracy rate.
- Implemented ML-based stress detection using text analysis and visualized insights with Matplotlib.