

Purushoth DL

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EDUCATION

- **Sri Venkateswara University College of Engineering** Tirupati, India
Bachelor of Engineering in Electronics and Communication: CGPA: 7.2
- **Courses:**
 - **Python Programming:** Gained a solid understanding of Python programming, including data structures, algorithms, and libraries.
 - **Neural Networks and Fuzzy Logic:** Studied neural networks and fuzzy logic principles, including various architectures like MLP, CNN, and RNN.
 - **Machine Learning:** Covered machine learning algorithms, including supervised and unsupervised learning techniques.
- **NPTEL**
Certification in 'Introduction to Machine Learning'

TECHNICAL EXPERIENCE

- **AIOverflow — AI Backend Engineer** India — Remote
Intern *Aug 2024 - Dec 2024*
 - **Full-Stack Development for Gym App:** Designed and implemented a scalable FastAPI backend and a cross-platform Flutter mobile app for a local gym. The app provides features like workout tracking, class booking, membership management, and progress monitoring. Developed a responsive landing page using React.
 - **Scalable Backend for Medical App:** Built a robust and secure backend using FastAPI for a medical application, managing patient data, appointment scheduling, and secure data storage.
 - **RAG Implementation for Document Retrieval:** Developed a Retrieval-Augmented Generation (RAG) system to enhance document retrieval and query-based information extraction, integrating Pinecone, Neo4j, and Gemini for efficient data retrieval and response generation.
 - **API Integration and Performance Optimization:** Integrated third-party APIs and optimized backend performance to ensure smooth functionality and scalability for high user traffic.
 - **Hackathon Achievement:** Qualified for the ATMECS Global GEN AI Hackathon by developing a scalable AI-driven solution, demonstrating strong problem-solving and technical skills.

PROJECTS

- **GeoFinTrack - Financial Data Visualization** : Developed an interactive web app using Streamlit to visualize financial data, including treasury levels and total assets of countries. Implemented role-based access control and integrated a map feature for enhanced user interaction and data comprehension.
- **Level Up - Gym Management System** : Built a full-stack gym management system with FastAPI for the backend, Flutter for the mobile app, and React for the admin panel. Users can log diet, workouts, and weights, while trainers can create and assign personalized plans. Used Firebase for image storage and MongoDB for text data management, with JWT-based user authentication.
- **NextGenHealth - AI-Powered Telemedicine** : Developed a telemedicine platform where patients upload medical tickets for AI-assisted doctor analysis. The system integrates patient data and medical histories to provide tailored medical advice. Focused on building an AI-driven experience with future improvements for privacy and security.
- **Greencore - Waste Disposal and Classification** : Created a waste disposal app that helps users locate nearby organizations using Google Maps SDK and classify waste into categories. It includes a real-time graph of disposal activity and a chatbot to assist users with waste classification based on uploaded images.

TECHNICAL SKILLS

Languages: Python, Dart, JavaScript, SQL.

Backend Development: FastAPI, Microservices, GraphQL, Docker, RabbitMQ, AWS Fargate, Nginx.

Databases: MongoDB, PostgreSQL, Neo4j.

AI/ML Tools: scikit-learn, NumPy, Pandas, YOLO, Firebase, Google Cloud, Prometheus, Grafana.