

ASWIN P T

Software Developer

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PROFESSIONAL SUMMARY:

Motivated and innovative Machine Intelligence student at Digital University Kerala with a solid foundation in computer science and a passion for solving real-world problems using AI/ML technologies. Skilled in Python programming, deep learning, data analytics, and web development. Proven ability to build full-stack applications and contribute in collaborative, competitive environments such as hackathons. Committed to leveraging technology for impactful and scalable solutions.

EDUCATION:

M.Sc. in Computer Science (Machine Intelligence)

Kerala University of Digital Sciences, Innovation and Technology, Thiruvananthapuram

2024 – 2026 (Ongoing)

B.Sc. in Computer Science

College of Applied Science IHRD, Kozhikode

Completed: 2024

TECHNICAL SKILLS:

- **Programming Languages:** Python, C, C++
- **Web Development:** HTML, CSS, JavaScript, Django
- **Technologies:** AI/ML, Deep Learning, Federated Learning, Data Analytics, computer vision, cognitive and soft computing
- **Tools & Platforms:** Google Colab, Kaggle, PyCharm, VS Code, Unity
- **Databases:** PostgreSQL, SQL

PROJECTS:

PETZZO – Pet Care Platform

Django, HTML, CSS, JavaScript, MySQL

Built a platform for booking appointments, tracking pets, and managing medical records. Integrated AI-based disease prediction and CRUD operations.

Deep Learning-Based Prediction of RNA Secondary Structures

Python, CNN, RNN

Designed a model to predict RNA secondary structures from sequences. Achieved good training accuracy and F1-score on validation using dot-bracket notation.

PM2.5 Air Quality Forecasting

Python, TensorFlow, Pandas, Seaborn

Developed a TensorFlow-based LSTM model to forecast 7-day PM2.5 levels in Mumbai, New Delhi, Hyderabad, and Chennai. Applied data preprocessing techniques including imputation, normalization, and feature encoding. Conducted exploratory data analysis and visualized pollution patterns.

Manglish WhatsApp Chatbot using Llama-3 (Ollama) and Node.js

Node.js, Ollama (Llama-3), WhatsApp-web.js

Built an offline Manglish (Malayalam-English) WhatsApp chatbot using a locally hosted Llama-3 model via Ollama. Integrated real-time messaging, designed a prompt-based personality engine, and automated chat flow using Node.js. Eliminated cloud dependency through local API calls and crafted informal, emoji-rich responses simulating a Malayali teenager's tone.