Edwin Binu

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EDUCATION

HERIOT WATT UNIVERSITY
MSC in Artificial Intelligence
Sept 2025 | Dubai, UAE

ANNA UNIVERSITY
BE in Computer Science
July 2023 | Chennai, India
GPA: 8.5 / 10.0

SKILLS

PROGRAMMING
Python · JavaScript · C · C++ · SQL · HTML · CSS

FRAMEWORKS
React.js · Next.js · Node.js · PyTorch · TensorFlow · Postman · Chai & Mocha

DEVOPS & TOOLS
Docker · Kubernetes · Git · GitHub Actions · Postman · Jira

DATABASES & AI SYSTEMS
MongoDB · SQL · Oracle NetSuite LLMs (Hugging Face) · RAG · Prompt Engineering · FAISS · SentenceTransformers FastAPI · API Orchestration · Workflow Automation · Event-Driven Pipelines

OTHER SKILLS
Analytical and task-oriented · Strong communication & teamwork · Customer engagement & planning

LANGUAGES
English · Arabic · Hindi · Malayalam · Tamil

CERTIFICATIONS
IBM Certified: Machine Learning with Python · Inside LVMH Business Certification

ZENARDY | NetSuite Consultant
Feb 2023 – August 2023 | Chennai, India
- Developed proof-of-concept ERP solutions and aligned implementations with client requirements
- Gathered business objectives and translated them into technical workflows
- Collaborated with project managers and technical teams for solution delivery
- Ensured cross-functional communication for client satisfaction

PROJECTS

AI MULTI-AGENT FINANCE ASSISTANT Mar 2025 – May 2025
- Built modular multi-agent finance assistant using FastAPI microservices
- Implemented RAG with Hugging Face FLAN models for dynamic market briefings
- Deployed using Docker Compose with CI/CD pipelines for reproducible builds
- Demonstrated AI agent orchestration with voice-based interaction (STT/TTS)
- Designed event-driven workflows for data ingestion, analysis, and reporting triggers

PARKINSON'S DISEASE DETECTION USING ML June 2025
- Developing hybrid CNN-Transformer model for Parkinson's detection from vocal features
- Extracting jitter, shimmer, and MFCCs for sequential classification
- Evaluating performance using cross-validation and Flask API deployment
- Applied feature scaling and model regularization to improve generalization
- Built a dashboard in streamlit

HOSPITAL MANAGEMENT SYSTEM USING DEVOPS Jan 2025 – Apr 2025
- Designed hospital management backend API using Node.js and MongoDB
- Integrated Docker and automated CI/CD via GitHub Actions
- Deployed microservices on Kubernetes with health checks and RBAC
- Followed Agile sprints with Jira and Postman API validation

NEURAL NETWORK OPTIMIZATION WITH PSO Sep 2024 – Dec 2024
- Developed ANN optimized using Particle Swarm Optimization
- Tuned hyperparameters to minimize mean square error
- Demonstrated ANN optimization for parameter search problems

TRASH IMAGE DETECTION USING AUTOENCODER Jan 2023 – May 2023
- Developed ML system to classify waste images using Autoencoders
- Built model in PyTorch achieving 85–90% accuracy
- Published in 2023 International Conference on Computing, Communication and Security

PUBLICATIONS
International Conference on Computing, Communication and Security (2023) - "Trash Image Detection Using Autoencoder"