

# Pavithra Binu

UI/UX Designer | Aspiring AI/ML Engineer | Computer Science Undergraduate

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## OBJECTIVE

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Detail-oriented Computer Science undergraduate and current UI/UX Design Intern with strong expertise in modern web development and user-centered design. Skilled in creating responsive, intuitive interfaces using HTML, CSS, JavaScript, Figma, and Canva, with additional experience in Python, Java, and Android Studio. Adept at structured design workflows, problem-solving, and delivering clean, functional digital experiences. Committed to contributing to impactful, user-focused projects.

## EDUCATION

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BACHELOR OF SCIENCE

MAJOR IN COMPUTER SCIENCE

UNIVERSITY OF WEST LONDON RAK, UAE (2024-2027)

## SKILLS

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PyTorch | Deep Learning | Machine Learning | Computer Vision | NLP | Generative AI | Prompt Engineering Python | Java | JavaScript | React.js | C++ | HTML | CSS | Android Development | Full-Stack Development OpenAI API | GitHub | DevOps | Figma | Canva | Visual Studio Code | Microsoft 365 | Microsoft Copilot Data Structures | Algorithms | OOP | Database Systems | Problem Solving | Analytical Thinking

## PROJECTS

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### Milo — Real-Time Meeting Intelligence Agent

Python · FastAPI · WebSockets · Whisper · LLaMA · Next.js · PostgreSQL · Docker

Developed a real-time AI meeting intelligence system that transcribes live meeting audio and extracts structured insights including action items, decisions, discussion topics, and sentiment. Implemented low-latency streaming transcription using Whisper with a LLaMA-based LLM pipeline for automated meeting intelligence.

Designed a scalable architecture with FastAPI, WebSockets, and PostgreSQL for structured meeting data storage, with a Next.js dashboard for live transcripts and analytics. Optimized streaming inference pipelines achieving ~400 ms latency per audio segment.

### Brain Tumor MRI Multi-Class Classifier

PyTorch · Transfer Learning · Grad-CAM · Gradio

Developed a multi-class brain tumor MRI classifier achieving 97% accuracy and 0.97-0.99 macro AUC-ROC by implementing transfer learning with PyTorch and comparing backbone architectures (EfficientNet, ResNet-50, Vision Transformer).

Enhanced model transparency via Grad-CAM heatmaps and delivered an end-to-end deployable web interface using Gradio to support interpretable medical AI workflows.

### Strata Forecast — Retail Demand Forecasting Platform

Python · Pandas · Scikit-learn · Random Forest · Time Series Forecasting

Developed an end-to-end machine learning forecasting platform processing 3M+ retail sales records across 54 stores to predict monthly product demand and generate 6-month forward forecasts.

Engineered predictive features including lagged sales signals and rolling statistics, training a Random Forest regression model that achieved 84.7% prediction accuracy (MAPE 15.3%). Built an analytics dashboard for trend and seasonality insights and serialized the trained model for deployment.

### IntelliTicket — Automated Support Ticket Classification & Priority Routing

Python · NLP · TF-IDF · Scikit-learn · Logistic Regression · Streamlit

Developed an NLP-based system that automatically classifies customer support tickets by category and routes them by urgency, eliminating manual triage. Implemented a preprocessing pipeline including tokenization, stopword removal, and lemmatization with TF-IDF feature extraction and dual Logistic Regression classifiers for category and priority prediction.

Benchmarked multiple algorithms (Logistic Regression, Random Forest, Naive Bayes, LinearSVC) using 5-fold stratified cross-validation before selecting the production model. Achieved 100% accuracy and F1-score of 1.0 on a held-out test set of 2,000 annotated tickets and deployed an interactive Streamlit dashboard for live inference, confidence scoring, and dataset analytics.

## Resume Screening System — NLP-Based Candidate Ranking Platform

Python · Scikit-learn · TF-IDF · Cosine Similarity · NLP · Streamlit

Developed an automated resume screening system that ranks candidates against job descriptions using a hybrid scoring model combining TF-IDF cosine similarity and weighted skill matching for improved candidate relevance scoring.

Built a preprocessing pipeline for resume parsing and skill extraction, supporting PDF and text inputs, and deployed an interactive Streamlit dashboard to visualize candidate scores, rankings, and skill gap analysis for hiring insights.

## Emotion Recognition from Speech — Deep Learning Audio Classification System

Python · PyTorch · CNN · BiLSTM · Attention Mechanism · Librosa

Developed a deep learning pipeline for speech-based emotion recognition using a hybrid CNN-BiLSTM architecture with attention mechanisms, achieving 86% test accuracy across 8 emotion classes on the RAVDESS and TESS benchmark datasets.

Implemented audio preprocessing and feature extraction pipelines for raw speech signals and optimized training with early stopping, achieving a 0.85 macro F1-score while improving model generalization across multiple emotional categories.

## EXPERIENCE

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### UI UX Designer

GAOTek Inc. (Feb 2026 – Present · Remote, UAE)

- Designed intuitive wireframes and high-fidelity prototypes in Figma to improve web usability, enhancing user flow and visual consistency across web platforms.
- Applied responsive web design principles to ensure seamless cross-device experiences, optimizing layouts for both desktop and mobile interfaces.
- Collaborated on user-centered design workflows, managing multiple design iterations under deadlines while maintaining high standards of functional and aesthetic quality.

### Machine Learning Intern

Future Interns (Mar 2026 – Present · Remote, UAE)

- Developed machine learning models to generate predictive insights from structured datasets, improving model performance and reliability, by applying Python, TensorFlow, and Scikit-learn workflows.
- Enhanced model accuracy and evaluation reliability by implementing data preprocessing, feature engineering, and performance validation techniques on real-world datasets.
- Built industry-oriented AI/ML solutions as part of the fellowship program by applying supervised learning algorithms and deep learning techniques.

### Machine Learning Intern

CodeAlpha (Mar 2026 – Present · Remote, UAE)

- Develop machine learning solutions for practical datasets, enabling automated insights and predictions, by building Python-based ML pipelines using Scikit-learn and data analysis libraries.
- Improve model performance and experimentation workflows by applying data preprocessing, feature engineering, and model evaluation techniques.
- Deliver end-to-end ML project implementations in a collaborative remote environment through algorithm development, testing, and documentation.

### Digital Marketing Intern

GAOTek Inc. (Mar 2026 – Present · Remote, UAE)

- Assisted in developing and executing digital marketing campaigns to increase online visibility and audience engagement across multiple platforms.
- Conducted market research and competitor analysis to identify trends and support data-driven marketing strategies.
- Created and optimized content for social media and digital channels to improve brand reach, engagement, and campaign performance.

## CERTIFICATIONS

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- **Career Essentials in GitHub (Professional Certificate):** LinkedIn Learning — Certifications (2026).
- **Career Essentials in Generative AI (Professional Certificate):** LinkedIn Learning — Certifications (2026).
- **One Million Prompts – AI Prompt Engineering (2026):** Dubai Future Foundation (2026)
- **Getting Started as a Full-Stack Web Developer :** LinkedIn Learning — Certifications (2026).
- **CSS Essential Training:** LinkedIn Learning — Certifications (2026).

- **DevOps Foundations:** LinkedIn Learning — Certifications (2026).
- **Practical GitHub Actions :** LinkedIn Learning — Certifications (2026).
- **Practical GitHub Project Management & Collaboration:** LinkedIn Learning — Certifications (2026).
- **Practical GitHub Code Search:** LinkedIn Learning — Certifications (2026).
- **OpenAI Realtime API: Building Voice Agents with Realtime API & Agents SDK :** LinkedIn Learning — Certifications (2026).
- **Learning Microsoft 365 Copilot for Work:** LinkedIn Learning — Certifications (2026).
- **What Is Generative AI?:** LinkedIn Learning — Certifications (2026).