

AKSHAY SASI

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akshaysasi.github.io/Personal-Portfolio/

EXPERIENCE

- **AI Engineer** June 2025 - Present
Storygame (P) Ltd Trivandrum, Kerala
 - Worked and researched on text-to-text LLMs, Model fine tuning and model inferencing and lip-sync video generation.
 - Worked on n8n automation, AI service fast api endpoints and workflow optimization
- **AI Intern** Jan 2025 - June 2025
Quest Global Trivandrum, Kerala
 - Researched the latest AI/ML and NLP frameworks for clustering and predictive modeling.
 - Developed ML models, improving clustering performance by 11% through HDBSCAN and feature engineering.
- **Research & Development Intern** Apr 2024 - July 2024
AI Chip Center - Digital University Kerala Hybrid - Trivandrum
 - Designed custom compilers and processor architectures for chips using Verilog and X-HEEP.
 - Optimized RISC-V architecture, reducing inference latency by 15% for ML workloads.

EDUCATION

- **M.Tech, Computer Science and Engineering (AI Specialization)** Sep 2023 - May 2025
Digital University Kerala, Trivandrum, Kerala Trivandrum, Kerala
 - CGPA: 8.0/10
 - Relevant Coursework: Mathematics in ML & DL, Advanced data structures, Deep learning, NLP, Cloud computing, Cognitive computing and Computer vision.
- **B.Tech, Computer Science and Engineering** Aug 2019 - Aug 2023
Vimal Jyothi Engineering College (KTU), Chemperi, Kerala Kannur, Kerala
 - CGPA: 7.64/10
 - Relevant Coursework: Data structures, OOPS, OS, Computer architecture, Microcomputers, Database management, Artificial Intelligence, Graph Theory and Networking.

PROJECTS

- **GROOVE: A Generative Refinement Framework Using Vision-Language Feedback Loops** June 2025
Tools: Python, Transformers, Diffusion Models, LLM
 - It is an innovative agentic system designed to bridge the semantic gap in text-to-image synthesis by autonomously refining prompts to accurately reproduce a target visual concept.
- **Baymax.AI: Emotionally Intelligent Conversational AI Agent** June 2025
Tools: Python, PyTorch, Gemini 2.5 Flash, React, Tailwind CSS
 - Built an emotionally intelligent AI Agent with a fine-tuned Gemini 2.5 Flash model, achieving 90% sentiment accuracy for adaptive, empathetic dialogue to support mental well-being.
- **Unveiling the Heart-Brain Connection: An Analysis of HRV in Cognitive Performance (Thesis)** May 2025
Tools: Python, Neurokit2, MNE, ML/DL Algorithms
 - Created a multimodal cognitive load classifier using ECG (HRV, Catch22) and EEG, achieving 92% accuracy for non-invasive mental state monitoring.
- **Texture-Based Food Contamination Detection Framework in Agricultural Products (Term paper)** Dec 2024
Tools: Python, PyTorch, OpenCV
 - A computer vision-based framework for detecting food contamination in agricultural products using Texture analysis and Morphological Component Analysis.
- **Gen-Scraper: AI Review Analyzer for Amazon** June 2024
Tools: Python, Selenium, HuggingFace
 - Built a tool that scrapes Amazon reviews and uses DistilBERT to detect AI-generated content with 85% accuracy, ensuring review authenticity.

SKILLS

- **Programming Languages:** Python, C, Java, SQL
- **Web Technologies:** HTML, CSS, JavaScript, ReactJS
- **Machine Learning & Deep Learning:** PyTorch, Scikit-learn, HuggingFace Transformers, TensorFlow, OpenCV
- **Generative AI:** LLMs, SLMs, Prompt Engineering, Model Fine-tuning, RAG, Model Optimization
- **Data Science & Analytics:** NumPy, Pandas, Matplotlib, Data Preprocessing, Feature Engineering
- **Other Tools & Technologies:** Docker, n8n, VS Code, MS Office, Canva, Jupyter Notebook
- **Research Skills:** Prompt Engineering, Literature Review, Feature Engineering, Experimental Design
- **Soft skills:** Leadership, Problem Solving, Creative & Critical thinking, Teamwork

HONORS AND ACHIEVEMENTS

- **Academic Excellence Award - M.Tech AI** Oct 2025
Digital University Kerala
 - Honored to receive the Academic Excellence Award for securing Second Rank in M.Tech degree with specialization in Artificial Intelligence.
- **1st Prize, ICT Day Hackathon** Apr 2025
Women Cell, Digital University Kerala
 - Developed a multifunctional, anonymous AI-powered social media platform for women using BERT and React Native, enhancing user safety and engagement.
- **3rd Prize, Ethical AI Ideathon** Sept 2024
Digital University Kerala & Mozilla Responsible Computing Challenge
 - Proposed a content curation system with filter bubble management, leveraging NLP to promote diverse content engagement.

POSITIONS OF RESPONSIBILITY

- **Project Lead, B.Tech Major Project** June 2022 - June 2023
Vimal Jyothi Engineering College, Chemperi, Kannur
 - Led a team of 4 in developing PryMe, a privacy-focused Android app, contributing to face recognition model development with 95% accuracy.
- **Chief Creative Officer, Innovation Club** June 2024 - Dec 2024
Digital University Kerala, Trivandrum
 - Coordinated 5+ events and created promotional content, enhancing innovation activities through creative design.
- **Club Secretary, CleanCut Cinemas, Film Club** Nov 2023 - Nov 2024
Digital University Kerala, Trivandrum
 - Handled overall management and operations of club activities, planned and conducted 5+ film events and connected with film technicians and executives.
- **Design Head - Vyuham '24 - Techno-Cultural Management Fest** Aug 2024 - Oct 2024
Digital University Kerala, Trivandrum
 - Led the design team, worked on creative contents and promo materials of the fest, managed the events and operations.

CERTIFICATIONS

- **NPTEL Swayam:** Introduction to Large Language Models Apr 2025
- **NVIDIA Generative AI/LLM:** Building RAG Agents Jul 2025

ADDITIONAL INFORMATION

Languages: English, Malayalam, Hindi
Other Interests: Films, Graphic design, Content creation, Event coordination, Idea pitching, Traveling.