AKSHAY SASI

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OBJECTIVE

Computer Science postgraduate with hands-on experience in machine learning, generative AI, large language models, and computer vision. Skilled in developing and fine-tuning cutting-edge AI models, with a proven ability to translate research into impactful real-world solutions.

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, n8n automation.

- **AI Intern** *Jan 2025 - June 2025*
  Quest Global - Trivandrum 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.

- **Part-time Graphic Designer** *June 2024 – Mar 2025*
  Sapience Edu Connect Remote
  ◦ Created engaging promotional graphics and logos, increasing social media engagement.

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

- **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.

- **NeRO 2.0 - Multiagent Deep Research Assistant** *June 2025*
  Tools: Python, LangChain, FastAPI, Gradio, langchain-google-genai
  ◦ Developed an autonomous research assistant retrieving academic insights from Wikipedia and Google Scholar with relevance via Google Gemini 2.5 Flash, presented through a conversational Gradio interface.

- **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.

- **PryMe: Privacy-Focused Social Media App (Major Project)** *June 2023*
  Tools: Java, Python, HTML, CNN, OpenCV
  ◦ Led development of an ML model for face recognition, and encryption for secure social interactions.

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.

- **1st Prize, Business Model Competition** *May 2024*
  Digital University Kerala
  ◦ Pitched an IoT-based communication system for fishermen, enabling real-time shore connectivity.

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 (Expected Jul 2025) *Jun 2025*
- **Forage - Deloitte:** Technology Virtual Experience Program *Nov 2022*

ADDITIONAL INFORMATION

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