

KAUSHIK VARMA DATLA

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EDUCATION

MS in Computer Science, University of Southern California

Aug 2026 – May 2028

B.Tech in CSE, B.V. Raju Institute of Technology,(Hyd)

Dec 2021 – Apr 2025

(CGPA: 8.57/10)

Coursework: DSA, OOPS, DBMS, Operating Systems and System Architecture, AI/ML, Computer Networks

TECHNICAL SKILLS

Languages: Java, Python, C, Kotlin, JavaScript, SQL, HTML, CSS, XML

AI/ML: Deep Learning, NLP, Computer Vision, Generative AI, LLMs, RAG, Agentic AI, LangChain, LangGraph, LlamaIndex, MCP

Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, OpenCV, NumPy, Pandas, Flask, FastAPI, Spring Boot, Firebase

Data & Cloud: Apache Spark, Apache Livy, ETL pipelines, PostgreSQL, MySQL, MongoDB, SQLite, AWS, Azure, Docker

Tools & Concepts: Git, Postman, MLflow, UBI AI, REST APIs, Android Development, DSA, OOP

EXPERIENCE

Associate Software Engineer Intern, Pennant Technologies, Hyd

Aug 2025 – July 2026

- Worked on building AI agents for a customer-facing loan chatbot and worked on a voice agent for inbound calls, both calling internal lending APIs for eligibility and status checks across the loan lifecycle.
- Engineered components of a Data Intelligence Platform, building ETL pipelines and integrating Apache Spark and Livy to support AutoML model training and prediction serving for client use cases.

Core Team Member, Menorah AI, Hyd

Nov 2022 – May 2023

- Accomplished 4 OCR annotation projects utilizing the UBI AI tool for Menorah AI and trained an OCR model using Pytorch and Tensorflow.
- Annotated 1000+ documents, which include receipts from 10s of companies with 98% accuracy.

ACADEMIC PROJECTS

Title: EcoTrace- Detect Carbon Emissions of LLMs, BVRIT, Hyd

Oct 2024 – March 2025

The project aimed to monitor real-time energy consumption and carbon emissions of generative AI models during inference by tracking API calls and estimating impacts based on computational load and server specs. Achieved the objective by delivering token-level emission insights and aggregate reports via API telemetry, CPU/GPU power estimation, and regional carbon adjustments. Key tools included hardware utilization analysis and inference tracking techniques. It enables developers to optimize AI efficiency, reduce energy waste, and promote sustainable GenAI deployments.

Title: Automated LipSynchronization, BVRIT, Hyd

June – Sep 2023

Conceived and led the design of a system that translates videos into 100+ languages while keeping the speaker's delivery natural. Built a pipeline that translates the speech, generates new audio in the target language, and re-syncs the speaker's lips to match, so the result looks naturally spoken. The system reached ~90% accuracy, and the work became the basis for the IEEE paper *MultiLingualSync* (ASIANCON 2023).

Title: College Bus Attendance Android Application, BVRIT, Hyd**Aug 2022 – Jan 2023**

This project is ideated and conceptualized from personal experience, aimed at creating an Android app for verifying student bus attendance using QR scanning, geofencing, and GPS validation to prevent proxy attendance. The objective was achieved by delivering tamper-resistant logging integrated with WebPros India's backend APIs. Key tools/techniques included Java/Kotlin, XML, ZXing, Google Maps geofencing, FusedLocationProviderClient, and Firebase.

RESEARCH&TEACHING**Undergraduate Teaching Assistant, BVRIT, Hyd****Aug – Nov 2024**

- Served as a Teaching Assistant for Operating Systems and System Architecture course, facilitating lab sessions, managing assessment preparation, coordination and doubt resolution.
- Mentored undergraduate students in applying programming fundamentals during operating systems and computer architecture laboratory work.

Undergraduate Research Assistant, BVRIT, Hyd**Sep 2022 – Aug 2024**

- Worked as a Research Assistant with the Associate Head of Department, helped identify gaps in existing methods and challenges in research design and methodology.
- Co-authored two IEEE papers contributing to problem formulation, literature reviews, experimental design, methodology and interpretation of results.

RESEARCH/PUBLICATIONS

Nanditha, G., Datla, K. V., Kevin, G., Nikitha, R., Pallavi, L., Babu, C. M. (2023).

MultiLingualSync: A novel method for generating lip-synced videos in multiple languages. In 2023 3rd Asian Conference on Innovation in Technology (ASIANCON) (pp. 1-6). IEEE.

Pallavi, L., Kosuru, S. S., Datla K. V., Debbata, K., Dulam, A. G., Gangavarapu, R. C.

(2023). *Data Analytics on Opportunities for Women in the Field of Technology. In 2023 5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA) (pp. 1-6). IEEE.*

ACHIEVEMENTS/CERTIFICATIONS/ADDITIONAL COURSES:**AWS Hackathon | 2nd Place, INR 75,000 prize****Dec 2023**

Participated in a corporate hackathon conducted by AWS where my team secured a second place and won a prize of Rs. 75,000 for developing an AI-driven meal tracking and token management application utilising AWS services effectively.

[Cloud Foundations | AWS Academy](#)

2022

[Android Development with Kotlin | Google for Developers](#)

2022

LEADERSHIP ROLES**Innovation and Outreach Lead | Coding Brigade BVRIT (Coding Club) Feb 2023 - May 2024**

- Organized many workshops and hackathons, including one 4-day fest TechSurge2k24 featuring 36 hour inter-college hackathon which attracted 500+ participants across colleges and secured corporate sponsorships for technical events.
- Collaborated with organizations such as Infosys, Hexagon, TASK and Forage AI to deliver industry insights and active participation.

Management Co-ordinator | EngineerHub**Oct 2022 - May 2023**

- Managed the recruitment and interviewing of campus ambassadors and organized three webinars focused on technical topics and career development.