

BHASKARA HEMANTH KARTHIKEYA GANTI

BITS Pilani, Hyderabad Campus

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Education

BITS Pilani, Hyderabad Campus

2022 – 2026

B.E., Computer Science Engineering

CGPA: 9.06

Ascent Junior College

2022

Class XII, BIEAP

96.7%

Internships

Data Analytics Intern | *Providence*

Jun 2025 – Present

- Ideated, designed, developed and deployed an **end-to-end internal** product which converts **Power BI reports** into well-detailed documentation in **company-approved format**, which is being used presently by **500+** employees.
- Additionally developed **RAG**-based document QA tool **from scratch** supporting PDF, CSV, and Power BI files using vector embeddings, **pgvector** database for **cosine similarity** search, and LLM completion with **source attribution**.

Summer Intern | *Jio Platforms Ltd.*

May 2025 – Jul 2025

- Gained proficiency in the bug life cycle and **software development life cycle** through manual testing of diverse engagements in **JioEngage** platform.

Projects

ReportIQ - Wiki Generator | *Python, Streamlit, Power BI, Azure DevOps, CI/CD, OOPS*

Jun 2025 – Present

- Engineered **Power BI** report-to-documentation generator using Streamlit that parses **JSON TMDL** files to auto-generate **ER diagrams** and detailed **wiki** pages in **company-approved format**, reducing **manual documentation** time by **85%**.
- Implemented **Factory** design pattern for **multi-format** support and developed **RESTful API** for cross-platform integration, deployed via **Azure CI/CD** pipelines using Docker containerization and Kubernetes orchestration with **Helm charts**.
- Built scalable solution serving 500+ users concurrently through Azure Kubernetes Service deployment, following **AGILE methodology** completing **8 sprints** with **100% user story** completion, through **Azure DevOps**.

MakeMyMail | *NextJS, Spring Boot, Maven, PostgreSQL, Docker*

Feb 2024 – May 2024

- Developed full-stack email management app, featuring **smart mail sorting**, **automated labeling**, and **mass unsubscribe** tools, improving user email organization efficiency by **35%** with **reduced manual filtering**.
- Implemented **RESTful APIs** and **services** with **Spring Security**, and PostgreSQL, supporting **100+ concurrent** user sessions with **<200ms** response time by **indexing** frequent queries.
- Designed 2NF-normalized **relational** schema with **Supabase**, enabling real-time updates with **<=1s latency** for user profiles, **email metadata**, labels, **unsubscribe** preferences, and Gmail sync.

Cuffless-BP Prediction System | *PyTorch, TensorFlow, Diffusion models, U-Net*

Jan 2025 – Present

- Built **cuffless BP** prediction system using **RDDM** diffusion model for **PPG-to-ECG** generation and **LSTM** for ABP wave prediction.
- Implemented DDPM-based U-Net with **dual conditional networks** and **skip-connections** for cardiac signal processing, trained on HPC cluster with **WandB** for tracking, analytics and model training progress.
- Developed an end-to-end pipeline converting **PPG** signals to systolic/diastolic **BP** values, achieving **2.68bpm** error rate, leading to **43%** reduction on **MIMIC-IV** datasets.

ARC - RoboKit | *Svelte, SvelteKit, Tailwind CSS, Firebase, Firestore*

May 2024 – Jul 2024

- Developed **progressive web application** (PWA) for **robotics club** inventory management with **role-based admin** access & tracking.
- Implemented responsive web interface with **offline** capabilities and **push notifications** for efficient equipment management, leading to **50+ DAU** in club.
- Built full-stack solution with **club-membership authentication** via **Firestore SSO**, reducing new member onboarding time from **days to minutes**.

Technical Skills

Next.js, Java, SQL, Spring boot, Tailwind CSS, Azure DevOps, Express.js, Node.js, Power BI, TypeScript, Matplotlib, PyTorch, Scikit-Learn, Postman, JavaScript, Python, C, C++, Django, Firebase

Relevant Coursework

OOPS, DSA, Discrete Structures, DBMS, Data Mining, Probability and Statistics, Foundations of Data Science, ML, AI, Computer Networks, Operating Systems, Computer Architecture, Design and Analysis of Algorithms