

BHARATH KUMAR A A

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WORK EXPERIENCE

Intern at Bigcat Electronics Pvt. Ltd. - ERP, Inventory Data, Quality Inspection Jun 2026 – Jul 2026

- Maintained accurate **inward and outward inventory records** of components in the company's **ERP system**, working with structured transactional data to keep stock records **consistent and traceable**.
- Studied the end-to-end **automotive electronics production workflow** (PCB printing, reflow oven processing, **AOI inspection**, manual inspection, routing) and where **process and inspection data** is generated.
- Observed **quality-control** and defect-detection stages, building domain context for applying **data analysis and ML** to manufacturing quality and inventory problems.

PROJECTS

Digital Forensics AI - Python, Flask

- Built an **AI-assisted digital evidence analysis platform** that analyzes **log structures and files** to support forensic investigation.

Dropout Prediction System - Python, Pandas, Machine Learning

- Developed a **machine learning model** that predicts **at-risk students** from scholastic records, enabling early identification of dropout risk.

Power BI Dashboard - Power BI, DAX

- Created an **interactive dashboard** visualizing **student dataset analytics** and academic indicators using **DAX** measures.

Python Automation Workflows - Python, n8n

- Automated **web scraping** and **webhook notifications** for **scheduled data backups** using Python and n8n workflows.

Smart Study Desk - C, Arduino

- Built a **hardware automation system** integrating sensors for **smart lighting** and **presence detection**.

Canteen Ordering App - Figma, UI/UX

- Designed a **high-fidelity app prototype** in Figma to reduce **campus food court queues**.

EDUCATION

Sathyabama Institute of Science and Technology

2024 – 2028

B.E. Computer Science and Engineering (Data Science)

CGPA: 7.56 / 10

Sri Sankara Vidyalaya Matriculation Higher Secondary School

2024

Higher Secondary Certificate (HSC)

SKILLS

Languages	Python, C, Java, R, SQL, HTML, CSS, JavaScript
Data Science & AI	NumPy, Pandas, Machine Learning, Data Analysis, Power BI, Jupyter, Excel
Frameworks	React, React Native, NodeJS, Django, PyTorch, MCP server for Copilot, Claude Code
Tools	Docker, Postman, Figma, VS Code, Android Studio, XCode, GitHub
Certifications	AWS Cloud Practitioner, IBM AI Fundamentals, Cisco Cybersecurity, Tata Data Visualisation, RF Skilling Python, Google BigQuery ML, MATLAB Data Analysis

ACHIEVEMENTS AND CO-CURRICULARS

- **Top 10** finalist at the **BITS Pilani Hackathon** and at **VinHack** by VIT Gravitas
- Participated in **Smart India Hackathon**
- **Winner**, Film Making competition at Grand Tech Carnival
- Attended a **Video Editing Workshop**