

SARAH JOBY DAVID

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EDUCATION

Vellore Institute of Technology, Bhopal

(2022 – 2026)

Bachelor of Technology in Computer Science and Engineering (Specialization in Cloud Computing and Automation) | CGPA: 8.9

SKILLS

- **Programming** - Java, Python, SQL
- **Tools** - AWS, Power BI, MySQL, TensorFlow
- **Soft Skills** - Problem Solving , DSA, Team Collaboration

PROJECTS

Data-Driven Hospitality Management System

(June 2025)

- Spearheaded the development of a Power BI data analytics solution for a multinational hotel chain, simulating realistic scenarios and improving occupancy forecasting accuracy by 15%.
- Visualized hotel performance using key metrics like Revenue Per Available Room (RevPAR) and Average Daily Rate (ADR) dashboards, enabling data-driven insights.
- Executed robust data transformation and modeling using Power Query and DAX to integrate and analyze diverse hospitality datasets.
- Created compelling and user-friendly dashboards with interactive filters and KPI cards, enhancing decision-making through clear data visualization.

Potato Disease Classification Project (Deep Learning, Mobile & Cloud)

(July 2025- Aug 2025)

- Developed and deployed an end-to-end deep learning solution to classify diseases in potato plants (early blight vs. late blight) using image data, addressing a critical challenge in agriculture that leads to significant crop loss each year.
- Built and trained a Convolutional Neural Network (CNN) with TensorFlow, utilizing data augmentation and preprocessing techniques to improve model robustness and accuracy.
- Engineered a mobile application that allows farmers to capture plant images and receive instant disease diagnosis, making advanced AI accessible in the field

RESEARCH WORK

International Scientific Research Congress, Adana, Turkey(Virtual)

(Dec 2024)

- Co-presented research on AI-driven resilience and privacy preservation in Cloud IoT for energy modeling.

Book Chapter Publication

(Aug 2025)

- Co-authored "Navigating the Fog: AI-Driven Resilience and Privacy Preservation in Cloud IoT Environments," selected for publication in Intrusion Detection Paradigm for Cloud-IoT Environments (Scopus-indexed, Scrivener/Wiley). Explored AI strategies for threat detection, privacy, and resilience.

Activities & Certifications:

- **Extracurriculars:** Cloud Zone Club Designing Team- Core Member
- **Certifications:** Data Science with Python (iamneo) - April 2025
- **Languages:** Fluent in Hindi, English