

# 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**

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## SKILLS

- **Programming** - Java, Python, SQL
  - **Tools** - AWS, Power BI, MySQL, TensorFlow
  - **Soft Skills** - Problem Solving , DSA, Team Collaboration
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## 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
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## 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.
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## Activities & Certifications:

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