

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

Password Generator

(September 2025)

- Developed a secure GUI-based password generator in Java using Swing/AWT, with customizable length and character sets (uppercase, lowercase, numbers, symbols) for enhanced account security.
- Implemented modular backend with Random and StringBuilder for efficient randomization, plus validation and event-driven UI interactions in a themed, non-resizable window.

Student Performance Analysis

(October 2025)

- Explored 1K+ student records via EDA, linking demographics to pass rates (>60% average score); count plots revealed 57% female vs. 43% male passers.
- Used bar/KDE plots to show parental education impact (15% higher scores for bachelor's parents) and interventions like test prep (25% pass boost).

Activities & Certifications:

- **Extracurriculars:** Cloud Zone Club Designing Team- Core Member
- **Certifications:** Data Science with Python (iamneo) - April 2025