

RESUME SUMMARY

Enthusiastic and detail-oriented Computer Science graduate fresher skilled in **Java, Python, AI/ML, Cloud (AWS), DevOps, SQL, and UI/UX**. Strong foundation in **data structures and algorithms (DSA)**, with the ability to design efficient solutions. Eager to apply technical expertise and contribute to innovative software development projects. Hands-on experience through projects in **traffic simulation, predictive modeling, cloud deployment, and chatbot development**

EDUCATION

Bannari Amman Institute of Technology, Satyamangalam
Bachelor of Engineering (CSE): CGPA: 7.65 / 10

TamilNadu, India
Sep 2023 - Sep 2027

SKILLS SUMMARY

- Programming Languages:** Java, Python

AI & ML: Supervised & unsupervised learning, model building, and evaluation.

DSA (Java): Solved **170+ problems on LeetCode** to strengthen problem-solving and algorithm skills.

Cloud (AWS): EC2, S3, Lambda, cloud deployment, and AWS services.

DevOps: CI/CD pipelines, Git version control, Docker containerization.

UI & UX: Wireframing, user interface design, and user experience optimization.

SQL: Complex queries, joins, and database management.

PROJECTS | [Link](#)

- Traffic Signal Simulation (Python, Pygame)** – Developed a real-time traffic signal simulation using Python and Pygame. Implemented AI-based traffic management to optimize vehicle flow, reduce waiting time, and visualize traffic patterns.

Student Performance Prediction (Python, Machine Learning) – Built a predictive model to forecast student performance using Python ML libraries like scikit-learn. Applied data preprocessing, feature selection, and regression/classification algorithms to improve prediction accuracy.

Cloud Web App Deployment (AWS) – Deployed a web application on AWS EC2 with static assets on S3. Configured security groups, cloud storage, and environment setup, ensuring high availability and scalability.

AI Chatbot (Python, NLP) – Developed a rule-based AI chatbot using Python. Implemented natural language processing (NLP) techniques to understand user queries and provide automated responses, improving user interaction.

CERTIFICATES | [Link](#)

- Machine Learning Certification** – Supervised & unsupervised learning, model building.

Python Programming Certification – Python scripting, OOP, and data analysis.

AWS Cloud Practitioner – Core AWS services and cloud deployment.

Artificial Intelligence Certification – AI concepts and machine learning applications.