

# Aayush Makhija

| [aayush.makhija@gmail.com](mailto:aayush.makhija@gmail.com) | +91 9158651925 | LinkedIn: [Aayush Makhija](#) | GitHub: [aayush-makhija](#)

## EDUCATION

### Manipal University Jaipur

Jaipur, Rajasthan

B.Tech (Computer and Communication Engineering)

Expected Graduation: July 2026

- o **Concentrations:** Full-Stack Development and Data Science
- o **Related Coursework:** Computing in C, Data Structures & Algorithms, Object-Oriented Programming in Java, Digital Design & Computer Architecture, Data Communications, Computer Networks, Database Design using SQL, Web Development, Cryptography, Software Engineering, Data Science, Soft Computing, Wireless Communication, Artificial Intelligence and Machine Learning, Automata Theory and Compiler Design, Linux Shell, Data Mining and Warehousing

## SKILLS

**Programming:** C, Golang, HTML/CSS, SQL, JavaScript, Python, Java

**Tools:** npm, Git, Docker, Bootstrap, Postman

**Databases:** Postgres, MySQL

## EXPERIENCE

### Invimatic Tech

Pune, Maharashtra

Software Development Intern

May 2024 – July 2024

- Developed plugins in Golang and Caddy, automating over 500 SSL certifications through the ACME challenge process.
- Created a Go plugin with Kong to streamline API management and enhance backend functionality.
- Gained hands-on experience with DNS servers and backend tools like Postman while exploring .NET fundamentals.

## PROJECTS

### Disease Prediction Model

Jaipur, Rajasthan

Team Member

Aug 2024 - Dec 2024

- Created an easy-to-use platform for users with limited medical knowledge, providing early disease detection and treatment recommendations to help assess the severity of symptoms.
- Innovated a disease detection system using Machine Learning models (Decision Tree, K-nearest neighbour, and Logistic Regression) to diagnose diseases based on symptoms, achieving an accuracy of 91.29%.

### NLP Chatbot

Pune, Maharashtra

Lead Developer

June 2024

- Built a chatbot using Golang to handle basic user queries through natural language processing.
- Engineered integration of WitAI for enhanced understanding of user inputs, coupled with Slack channels to facilitate instantaneous communication, resulting in a 40% increase in response speed for customer interactions.

### Music Playlist Management System

Pune, Maharashtra

Lead Developer

December 2023

- Engineered a music playlist management system leveraging Golang and PostgreSQL, enabling CRUD operations, and enhanced playlist retrieval speeds by 60%, the fastest in team history.
- Designed a scalable backend architecture to ensure efficient data handling and system performance.

## CERTIFICATIONS

- Foundations of Data Science - Google Coursera
- Introduction to Software Engineering - IBM Coursera
- System Administration - Red Hat
- CCNAv7 Introduction to Networks Cisco Networking Academy CISCO

## ACTIVITIES AND LEADERSHIP

### Smart India Hackathon 2024

Jaipur, Rajasthan

Team Lead

Aug 2024 – Sept 2024

- Led a team in developing a career counselling portal for addressing unemployment and guiding students, participating in a nationwide competition with over 250 teams.

### NPTEL Design and Analysis of Algorithms

- Achieved a top 5 percentile rank in the prestigious NPTEL Design and Analysis of Algorithms exam conducted by IIT Madras, showcasing strong analytical and problem-solving skills.