Aayush Makhija

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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

Interactive Journal **Jaipur, Rajasthan**
Lead Developer *Jan 2025 - Apr 2025*

- ● Developed an interactive journal that leverages sentiment analysis to help users reflect on their emotions and thought patterns through everyday writing.
- ● Applied natural language processing techniques like tokenization, stop word removal, and TF-IDF vectorization, combined with machine learning models (Logistic Regression and Naive Bayes), achieving 77.8% accuracy on real-world emotional datasets.

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
- ● C Programming - UC Santa Cruz

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.*