

Mayank Singhal

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Professional Summary

Computer Science student with hands-on experience in data engineering, analytics and systems development. Built scalable services using FastAPI, MongoDB and cloud platforms. Delivered high-quality data workflows and automation. Seeking technical analyst roles focused on market data systems, analytics pipelines and reliable software operations infrastructure

Education

B.Tech Computer Science and Engineering

Manipal University Jaipur - May 2026 (expected)

Minor: Cloud Computing • CGPA 80%

Class X and Class XII (CBSE)

Lovely Public School - 2019 - 2022

Stream: PCM with CS • Class X - 92.2% • Class XII - 92.2%

Experience

Software Engineering Intern

Publicis Sapient — May 2025 – July 2025

- Co-developed ARIA, an AI voice-interview pre-screening tool built on **FastAPI**, **LangChain**, and **MongoDB**, reducing manual screening time by **70%** and enabling HR teams to process **3x** more candidates.
- Optimized **15 FastAPI endpoints** and MongoDB schemas, improving data throughput by 40% and reducing report generation time from **6 minutes to 4 minutes**.
- Spearheaded the creation of comprehensive API documentation using **Swagger** for the ARIA project, reducing onboarding time for new developers by 60% and **improving code maintainability**.

Technical Lead & Community Manager

LaVisuals — Feb 2021 – Jul 2023

- Developed and sharded a Discord bot backend in **Node.js** to automate order/support flows for 300+ users, achieving **sub-5-minute ticket resolution**.
- Implemented load balancing and caching layers, driving **30% revenue growth** and **65% retention** through faster response times.
- Led 5+ design workshops, **onboarding 250+ community members** and boosting creative engagement.

Projects

DocBook – React, TypeScript, Supabase, SendGrid, Vercel

[Live Demo](#)

- Engineered a full-stack doctor-patient booking platform with real-time slot management using **React**, **TypeScript**, and **Supabase**; integrated **SendGrid reminders**; deployed on Vercel, cutting no-shows by 30% and automating clinic workflows.

Trylo - Virtual Try-On – React, TensorFlow.js, PyTorch, Docker, AWS Lambda

[Live Demo](#)

- Integrated **MV-VTON** and **TryOn-GAN** models pre-trained on the DeepFashion dataset using PyTorch and TensorFlow.js; containerized with Docker; served via AWS Lambda, reducing garment **rendering latency by 35%**.

Heart Risk Detection – Python, TensorFlow, FastAPI, AWS EC2

[Live Demo](#)

- Trained a **TensorFlow DNN classifier** on the UCI Heart Disease dataset; exposed via FastAPI endpoints and deployed on AWS EC2, **achieving 87% accuracy** and enabling 250+ users to evaluate cardiac risk through a scalable REST API.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, SQL, Object-Oriented Programming

AI & ML: TensorFlow, PyTorch, OpenCV, LangChain

Web & Systems: React, FastAPI, Flask, Node.js, Express, REST APIs, Supabase, PostgreSQL, MongoDB

Cloud & DevOps: AWS (EC2, Lambda, S3, ECS), Docker, Git, Version Control

Leadership & Impact

Head of Graphic Design & Deputy Head of Events, ACM MUJ

Aug 2023 – Apr 2024

- Directed a team of junior designers to create LinkedIn posts, Instagram stories, reels, and carousels for 15 chapter events, driving a **30% uplift** in social media engagement.
- Coordinated logistics and promotion for technical workshops and hackathons, managing speaker outreach, venue setup, and marketing campaigns to boost average attendance by 25%.

Certifications

Certifications: AWS Academy Cloud Foundations • CCNA Routing & Automation • NPTEL (Data Structures & Algorithms)