SIDDHANT KOCHHAR
B.Tech (Computer Science and Engineering)

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VIT BHOPAL

ACADEMICS

Qualification	Institute	Board / University	% / CGPA	Year
B.Tech (CSE - 4th sem)	VIT University, Bhopal	VIT University	8.73/10	2026
XII	Maharishi Vidya Mandir, Jabalpur	CBSE	78.6%	2022
X	Maharishi Vidya Mandir, Jabalpur	CBSE	79.2%	2020

Certifications	● Cloud Computing by IIT Kharagpur offered through NPTEL ● The Bits and Bytes of Computer Networks by Google offered through Coursera ● Python A-Z™: Python For Data Science offered by Udemy	2024 2023 2023
Achievements	● Selected among top 500 students globally for the **Ericsson** Academic Training Program ● Awarded scholarship under Deen Dayal SPARSH Yojana by India Post	2024 2017

PROJECTS

AI Tutor	● **Tech Stack -** Python, FastAPI, MongoDB, OpenAI ● Developed an AI tutor that assesses the user's proficiency to generate personalized responses ● Developed a YouTube video summarizer, transforming lengthy video content into concise notes
Benchmarking Redis	● **Tech Stack -** Python, FastAPI, MongoDB, Redis ● Built a bookstore web app using MongoDB and Redis for optimized data storage and caching. ● Studied and benchmarked MongoDB vs. Redis, analyzing latency, throughput, and efficiency.
Note-Taking App	● **Tech Stack -** Python, FastAPI, MongoDB, Bootstrap ● Developed a basic note-taking application using CRUD APIs to learn the FastAPI framework
Diabetic Retinopathy with ML	● **Tech Stack -** Python, Scikit Learn, OpenCV ● Developed a machine-learning model to identify early-stage diabetic retinopathy (DR)
Covid-19 Data Analysis	● **Tech Stack -** Python, Pandas, Numpy, Matplotlib, Seaborn ● Analysed the correlation between Covid-19 infection rate and the country's socio-economic factors

CORE COMPETENCIES

Data Structure and Algorithm, Operating Systems, Database Management, AI & ML, Cloud Computing, Computer Networking

Programming	Python, Pandas, Numpy, Matplotlib, FastAPI, Postman, HTML, Java
Databases/Cache	MongoDB, SQL, Redis
Cloud	AWS
Analytics	Power BI, Matplotlib, Seaborn
Tools	OpenAI APIs, GitHub, Microsoft Office, Excel, Powerpoint, Canva
Soft Skills	Leadership, Communication, Teamwork, Problem Solving, Analytical Skills, Learning Agility

POSITIONS OF RESPONSIBILITY

MVM, Jabalpur	● Vice Captain, Assembly Committee ● Junior Prefect of Parashar House

CO-CURRICULAR & EXTRACURRICULAR ACTIVITIES

Technical	● Member, Google Developers Group ● Competitive Programming - LeetCode
Social/Sports	● Karate - Yellow belt
Interests / Hobbies	● Travelling, Cooking, Gaming