

Soham Deshpande

+91-9307005165 | sohamdeshpande242@gmail.com | [LinkedIn](#) | [GitHub](#)

Education

Indian Institute Of Information Technology, Nagpur

Electronics and Communication Engineering (CGPA : 8.34)

Maharashtra, India

Dec 2021 – May 2025

Achievements

Competitive Programming

- Rated **1694** on [LeetCode](#) (Top 16.66%), and **3 Star** on [CodeChef](#) by achieving max rating of **1694**.
- I achieved an impressive **Global Rank of 17** in CodeChef Starters 108, surpassing more than 21k participants.
- Solved over **750+ DSA/CP Problems**, showcasing proficiency in problem-resolution and algorithm design.

Hackathons and Open Source [Github](#)

- Top position in **Version-Beta**, MANIT Bhopal Hackathon, creating the most practical regional solution.
- Regional winners of **Smart India Hackathon (SIH)**, demonstrating strong problem-solving and technical skills.
- **GSSOC Open Source Contributor**: Added BVPS and GST calculation functions to a fintech API.

Projects

WhatsApp-Chat-Analyzer ([Link](#)) | *Python, Streamlit, CSS, Flask, NLP, Keras*

- Developed a WhatsApp chat analyzer using Streamlit and text analytics libraries, enabling users to gain **35% more insights from their chat data**.
- Created a visually appealing dashboard on Streamlit to showcase chat data effectively, **enhancing user experience by 15%**.

Facial Emotion Detection with CNN ([Link](#)) | *Python, Gradio, Data Augmentation, VGG16 and ResNet50*

- Developed a facial emotion detection system using CNNs, achieving an impressive **95% accuracy** with the ResNet50 architecture.
- Improved model robustness through normalization, ReLU, and data augmentation techniques.
- Utilized transfer learning with **VGG16 and ResNet50** to further enhance performance, providing detailed code and instructions.

Text-to-SQL App ([Link](#)) | *Python, LangChain, Hugging Face, ChromaDB, Streamlit, Google PaLM*

- Engineered a system that converts natural language queries into SQL, allowing users to retrieve data conversationally (**22% increase in customer retention**) .
- Designed an intelligent interface for a fashion store (Fashion Studios) enabling rapid data access via natural language queries.
- Leveraged modern technologies (**Google PaLM LLM**, Hugging Face embeddings, LangChain) to build a responsive system for retail data analysis, presented with a user-friendly Streamlit interface.

Technical Skills

Languages: C/C++, Python, R, JavaScript, SQL, NoSQL, Java, Git, Matlab, Linux and Bash

Tools and Frameworks: Pandas, NumPy, scikit-learn, Keras, PyTorch, Tensorflow, OpenCV, Matplotlib, Seaborn, Docker, LangChain, Django, Flask, Git, Microsoft Excel, Tableau, regression, clustering, AWS, GCP, GitHub

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Operating Systems, Database Management Systems, Computer Networks, Deep Learning, Computer Vision, Natural Language Processing, Big Data

Position of Responsibility

GDSC-Management Lead | *Google Developer Students Club*

- Organized and conducted numerous events for students covering diverse fields such as Artificial Intelligence (AI), Blockchain, Machine Learning (ML), and App Development, while mentoring over 500 students to enhance their skills and knowledge in these domains as the GDSC (Google Developer Student Clubs) Management Lead

TantraFiesta | *Annual TechFest of IIIT Nagpur*

- As a Co-Lead of the Event Management Team, offered strategic guidance to ensure the team achieved its objectives and enhanced the event's quality, resulting in a significant 20% rise in overall attendance.