Shubham Kumar Singh

Bengaluru, India

LinkedIn: linkedin.com/in/shubham-kumar-singh-622439228/   Email: singhshubhamkumar778@gmail.com

GitHub: https://github.com/Shubhamkumar-op   Mobile: +91-6307724409

EDUCATION

Nitte Meenakshi Institute of Technology   Bangalore , India

Bachelor of Engineering - Artificial Intelligence and Machine Learning   *Dec 2021 - Jun 2025*

Courses: *Object-Oriented Programming, Data Structures and Algorithms, Database Management System (DBMS), Machine Learning,Generative AI*

SKILL SUMMARY

Languages: C/C++, Python,SQL

Frameworks: TensorFlow, Streamlit, Langchain, Scikit-learn, Keras

Databases: MySQL

Tools: Git, GitHub, MySQL Workbench

Soft Skills: TeamWork, Event Management, Writing

PROJECTS

QueryBot | *Link*
- Tech Stack: Streamlit, MySQL, LangChain, ChatGroq, Python, SQLite, SQLAlchemy
- Developed an AI-driven SQL chatbot with LangChain and Llama3-8b-8192 (Groq), achieving 90%+ query accuracy.
- Enabled multi-database support (SQLite & MySQL) using SQLAlchemy ORM, handling 10,000+ queries/month.
- Optimized real-time query processing with RAG and caching, reducing query response time by 40%.
- Designed an intuitive user interface with Streamlit, allowing real-time query execution and structured response visualization.

TrendPick | *Link*
- Tech Stack: Flask, Flask-SQLAlchemy, Machine Learning, Pandas, Matplotlib, Scikit-learn
- Built a content-based recommendation system, improving recommendation relevance by 30%.
- Processed 50,000+ product interactions using cosine similarity for personalized recommendations.
- Increased user engagement by 25% through real-time, personalized product suggestions.

HealthSage | *Link*
- Tech Stack: Flask, Machine Learning, Pandas, Scikit-learn
- Developed a disease prediction system using machine learning, achieving 85%+ accuracy.
- Integrated a symptom-based diagnosis engine, processing 5,000+ symptom queries.
- Built a recommendation module for personalized health insights, enhancing user engagement by 20%.

HONORS AND AWARDS

- **Winner CodeSprint**- Secured 1st place in a coding competition by GDSC NMIT, outperforming 100+ participants.
- **Winner – NEURAL NEXUS (Data Wizard)**- Achieved 1st place in GEEKMATHEM 2024, competing against 50+ teams in data-driven challenges.
- **Top 10 Team – HackOverflow**- Ranked in the top 10 at a 24-hour hackathon by RNS Institute, among 200+ participants.
- **Competitive Programming** – Solved 400+ coding questions across multiple platforms, improving problem-solving efficiency.

VOLUNTEER EXPERIENCE

NSCC Core Team Member   Mar 2023 – Present

- Led event logistics and managed 100+ participants in a successful hackathon organized by NSCC.
- Planned and executed coding workshops for 50+ students, fostering hands-on programming skills.
- Collaborated with a team of 10+ members, ensuring seamless execution of technical events and hackathons.