SOASMI KOHLI
ENGINEERING STUDENT

CONTACT

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📍 New Delhi- 110035, India

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL, JavaScript, HTML & CSS

Frameworks & Tools: MERN, Flutter, Tableau, AWS Cloud

Databases: MySQL, SQLite, MongoDB

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming (OOP), Artificial Intelligence, Cloud Computing, Quantum Computing, DevOps

EDUCATION

Bachelor of Technology (B.Tech), Artificial Intelligence & Machine Learning
Guru Gobind Singh Indraprastha University,
Vivekananda Institute of Professional Studies
(2023 – 2027)

PROJECTS

AshaAI – Hackathon Winner Project
- Developed an AI-powered assistive technology using NLP and gesture recognition to help individuals with visual, speech, and hearing impairments.
- Integrated real-time API calls and voice recognition models to enhance accessibility.
- Won IEEE Hackathon for innovative application in assistive tech and AI-driven communication tools.

EchoSense – AI-Powered Wearable Device
- Designed a wearable communication aid for individuals with visual, speech, and hearing impairments.
- Leveraged Multimodal AI, NLP, and Gesture Recognition for real-time interaction.
- Implemented XGBoost models using PyTorch, TensorFlow, and OpenCV for speech-to-text and gesture-based commands.
- Integrated API-based language translation to enhance accessibility across different languages.

Database Management System
- Developed a Python + SQLite system for efficient member data management with CRUD functionality.
- Implemented data validation (phone numbers, pin codes, dates of birth) to ensure integrity.
- Added support for importing CSV data and storing member images in binary format.
- Designed an intuitive command-line interface for seamless database interactions.

Contact Sorter App
- Built a Flutter-based mobile application to automatically categorize contacts by country.
- Integrated device contact APIs for real-time sorting and efficient data handling.
- Showcases expertise in cross-platform mobile development, Flutter, and data organization.

Online Food Delivery App
- Developed a full-stack web application using HTML, CSS, and Java.
- Designed an intuitive user interface for browsing menus, placing orders, and tracking deliveries.
- Implemented responsive design and backend integration to enhance the ordering experience.

HOBBIES & INTERESTS

Passionate about literature, debates, and creative writing. Exploring advancements in quantum Acomputing, AI ethics, and cloud technologies.

PROFILE

Passionate AI & ML engineering student with expertise in software development, quantum computing, and cloud technologies. Winner of IEEE Hackathon, showcasing strong problem-solving skills and innovation. Experienced in full-stack development, product management, and research, with contributions to real-world projects and academic publications.

EXPERIENCE

Winter Internship – Quantum Computing Research (Dec 2024 – Jan 2025)
- Researched Quantum Walk Optimization with Non-Demolition Measurement for Vehicle Routing.
- Explored quantum gates, simulators, and probabilistic computing to improve real-world logistics.
- Worked under Dr. Kumar Gautam, collaborating with a team on quantum algorithms.

Fellowship – Product Management & Leadership (Foruppo, 2024)
- Worked on live projects, contributing to product strategy, team leadership, and market analysis.
- Gained hands-on experience in team collaboration and agile methodologies.

SheCodes Foundation Scholar (2025)
- Selected for a prestigious scholarship focusing on full-stack development and AI applications.

Hackathon Winner – AshaAI
- Developed AshaAI, an AI-powered assistant designed for accessibility solutions.
- Won a Hackathon, showcasing expertise in NLP, multimodal AI, and problem-solving.

CERTIFICATIONS

○ May 2024
NPTEL (Elite Certificate)
Data Analytics with Python

○ May 2024
NPTEL (Certificate)
Introduction to Database Systems

○ 2024
IIT Kanpur (Certificate)
Digital Marketing - Comprehensive Studies

○ July 2024
NPTEL (Certificate)
Sustainable Energy Technology

○ July 2024
NPTEL (Elite Topper Certificate)
Soft Skills

○ July 2024
NPTEL (Elite Topper Certificate)
Public Speaking

○ 2024
Coursera (Ongoing)
AWS Cloud Technology Professional Certificate

○ 2024
Google Certificate (Ongoing)
Digital Transformation Using AI/ML with Google Cloud Specialization

○ 2024
IBM Certificate (Ongoing)
Introduction to DevOps

○ April 2024 (Ongoing)
NPTEL (Certificate)
Object Oriented Programming in Java

PUBLICATIONS

"Interaction of Ionised Gas - Plasma Environments of Planets with Solar Wind and its Impacts"
Conference on Responsible Consumption, Production & Education for Sustainable Future (Oct 18-19, 2023)
Co-authored book chapter on **Large Language Models (LLMs), Large Vision Models (LVMs), and Big Data in Healthcare.**

ACHIEVEMENTS & AWARDS

Winner – IEEE Hackathon (2025) – Developed an AI-powered assistive technology, AshaAI.
Harvard Aspire Leaders Program Scholar (2025)
SheCodes Foundation Scholar (2025)
Elite Topper in Public Speaking & Sustainable Energy Technology – NPTEL (2024)

LEADERSHIP & ORGANIZATIONS

Head Girl – Mata Jai Kaur Public School (2021-2022)
Vivekalokan & **Kavyarang** (Literary Societies) – Active participant in literary discussions, debates, and creative writing initiatives.
SRIJAN, SDG Club (Design Team Member) – Contributed to visual storytelling and awareness campaigns for United Nations' Sustainable Development Goals (SDGs).