Mayank Singh

Kanpur, Uttar Pradesh, India
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EDUCATION

Pranveer Singh Institute of Technology **2022 – 2026**
*B.Tech CSE-Internet Of Things [CS-IOT] – **74.19%** (Till 5th Sem)* *Kanpur, Uttar Pradesh, India*

Allahabad Public School & College **2022**
*CBSE Board - Class 12th - **Percentage – 74.8%*** *Prayagraj, Uttar Pradesh, India*

Allahabad Public School & College **2020**
*CBSE Board - Class 10th - **Percentage – 88%*** *Prayagraj, Uttar Pradesh, India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- OOPs Concept
- Operating System
- Database Management Systems
- Software Engineering
- Computer Networks

TECHNICAL SKILLS

Languages: Python, SQL, HTML5, CSS3, JavaScript
Frameworks & Libraries: NumPy, Pandas, Matplotlib, Seaborn, Flask
Databases & Backend: SQLite, MongoDB, Firebase
Tools & Technologies: Jupyter Notebook, Git/GitHub, MS Office
Concepts & Domains: Data Acquisition & Processing, Data Analysis & Visualization, Backtesting
Soft Skills & Management: Critical Thinking, Strategic Planning, Agile Team Leadership, Effective Communication, Productivity Optimization

PROJECTS

Implemented Bollinger Backtesting Model – GitHub
Developed and implemented a Bollinger Bands Backtesting model on historical stock data using Python. Integrated a custom buy/sell strategy. Visualized trading signals, price trends, and Bollinger Bands using matplotlib/seaborn for clearer analysis and decision-making.

Contact Management System – GitHub
Built a modular CLI-based application to manage contacts with role-based authentication (Admin/Guest). Enabled CRUD operations, search, and CSV export using Python and SQLite.

Expenselytics – GitHub
Developed a finance management tool using Python, Tkinter, and SQLite, enabling users to track expenses. Implemented data visualization charts for a better user experience.

Smart Glasses for Visually Impaired People's – (Present)
As part of the final year B.Tech project, designing assistive smart glasses using Raspberry Pi, sensors, and voice feedback to aid navigation, object detection, and text-to-speech reading for people with visual impairments.

CERTIFICATIONS

- Python Programming
- SQL Bootcamp
- Git/GitHub and Markdown
- Geodata Processing using Python (IIRS)

LANGUAGES

- English (*Professional*)
- Hindi (*Native*)