Mayank Singh

Kanpur, Uttar Pradesh, India
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TECHNICAL SKILLS

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

RELEVANT COURSEWORK

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

EXPERIENCE

Business Analyst Intern

PANTECH Secure Solutions – Delhi, India
Oct 2024 – Jan 2025

- Developed and implemented a PDF extraction tool to automate key information retrieval from over 70+ government tender documents, increasing bid analysis efficiency by 60% and significantly reducing manual review time.
- Analyzed over 30+ IT equipment and vendor options using Excel and market research tools to identify sourcing combinations that boosted profitability by 15% while ensuring full regulatory compliance.
- Automated data entry and structured pricing, vendor terms, and technical specs for 40+ products by integrating Google Sheets with APIs, reducing manual effort by 50%.

PROJECTS

Implemented Bollinger Backtesting Model – GitHub

Developed a Bollinger Bands backtesting model on 10+ years of historical stock data using Python, integrated a custom buy/sell strategy, and improved strategy evaluation with visual insights using Matplotlib and Seaborn.

Tech Stack: Python, Pandas, NumPy, Matplotlib, Seaborn

Contact Management System – GitHub

Built a modular CLI contact management system with role-based access (Admin/Guest), supporting CRUD operations, search, and CSV export for efficiently managing 500+ contacts using Python and SQLite.

Tech Stack: Python, SQLite, CSV, Command-Line Interface (CLI)

Smart Glasses for Visually Impaired People's – (Present)

Currently designing assistive smart glasses using Raspberry Pi and sensors as my B. Tech final year project, aiming to enable navigation, object detection, voice guidance, and text-to-speech reading, with the goal of successfully passing 10+ pilot tests to enhance mobility for visually impaired users.

Tech Stack: Raspberry Pi, Python, OpenCV, Ultrasonic Sensor, Pi Camera, Speech Recognition

CERTIFICATIONS

- Python Programming (Udemy, Infosys Springboard)
- SQL Bootcamp (Udemy)

EDUCATION

Pranveer Singh Institute of Technology (PSIT) — **2022 – 2026**
B. Tech – CSE - Internet Of Things [CS-IOT] – **74.12%** (Till 6th Semester) — Kanpur, Uttar Pradesh

Allahabad Public School & College — **2022**
CBSE Board - Intermediate – **74.8%** — Prayagraj, Uttar Pradesh

Allahabad Public School & College — **2020**
CBSE Board - Matriculation – **88%** — Prayagraj, Uttar Pradesh

LANGUAGES

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