ARYAN RAJESH GUPTA

Data Science & AI Undergraduate | Python Developer | Data Analysis & Visualization

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PROFESSIONAL SUMMARY

Data Science & AI undergraduate with hands-on Python experience across data analysis, statistical modelling, and visualization (Python & R). Engineers terminal-first, production-style applications — an AI-assisted data analysis CLI and a MySQL-backed authentication system — applying OOP, data validation, and security best practices, backed by hackathon and competition experience.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, HTML/CSS

Data Science & Analysis: Pandas, NumPy, Statistical Modelling, Regression Analysis, Exploratory Data Analysis (EDA), Data Cleaning & Validation

Data Visualization: Matplotlib, Seaborn, 2D/3D Visualization Techniques

Databases: MySQL, Oracle, PyMySQL

Software Engineering: Object-Oriented Programming (OOP), CLI Application Design, Git Version Control

Tools & Platforms: Git, GitHub, VS Code, Linux (Arch/EndeavourOS), Lens Studio, MS Excel

Concepts: Rich-based Terminal UIs, Password Hashing (bcrypt), Session Management, Prompt Engineering, Python Automation

PROJECTS

Synthalytics — AI-Assisted Terminal Data Analysis Tool *Python, Pandas*

- Engineering a terminal-first CLI automating data ingestion, EDA, and AI-assisted insight generation for CSV/tabular datasets.

Authentication System — Modular CLI with MySQL Backend *Python, MySQL, PyMySQL, bcrypt, Rich*

- Built a 17-module, 1,300+ line OOP authentication system with a Rich-powered terminal UI (25+ components, 15 themes); implemented bcrypt hashing, password-strength checks, 3-attempt login limiting, and session management.
- Migrated persistence from JSON to MySQL via PyMySQL (custom schema + CRUD modules) and built an admin dashboard for user search, listing, and account deletion.

Student Academic Performance — Data Visualization *Python, Pandas, Matplotlib, Seaborn*

- Analyzed 10+ variables (study hours, sleep, attendance, stress, GPA) via histograms, bar/pie charts, and scatter/line plots to surface key performance drivers.

Meme Hackathon Dataset Analysis *R*

- Cleaned a 12+ variable dataset (NA/duplicate handling, outlier detection, factor encoding) and built 5 simple + 2 multiple linear regression models predicting final score (~97% R^2) from presentation score, coding hours, and hackathons attended; visualized via boxplots, heatmaps, and 2D/3D scatter plots.

HACKATHONS & COMPETITIONS

- Snapchat Lens Studio Hackathon (Team Snapchat India) — Designed and published AR lenses using Generative AI integrations within Lens Studio.
- National-Level Hackathon, 30 Hours (Thakur Ramnarayan College) — Collaborated on a team-based sprint spanning ideation, development, and final technical presentation.

EDUCATION

- B.Sc. Data Science & Artificial Intelligence — Bhavan's College | 2025–2028 (Expected) | CGPA: 8.62/10 (First Year)
- 12th Grade (Science) — R.D. National College | 2025 | 68.33%
- 10th Grade — Santacruz West Municipal School | 2023 | 81.20%

CERTIFICATIONS & ACHIEVEMENTS

Certifications: Python Programming (Mimo), HTML Basics (Mimo), Prompt Engineering (CDPL)

Achievements: 1st Place — Start-up Building Bootcamp; Winner — Mirror Logic Event; Publicity Team, Department Fest

INTERESTS & CURRENTLY EXPLORING

Interests: Outdoor sports, movies & series, emerging technologies.

Currently Exploring: Python automation, Rich-based CLI UIs, AI-powered developer tools.