




ALISHA MATHIAS

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Education

Dwarkadas J. Sanghvi College of Engineering

B.Tech in Computer Science & Engineering (Data Science) **GPA: 9.165/10**

Aug 2023 – Present

Mumbai, India

St. Francis (ICSE) School

Board Examination Result: 96.33%

Jun 2008 – May 2021

Mumbai, India

Projects

Budgetix - AI Budgeting Assistant (React, Node.js, Supabase, Google GenAI) (Link)

- Built an AI-driven budgeting tool, featuring real-time dashboards, automated classification of 1000+ expenses, and personalized savings plans that improved recommendation accuracy by 20%.
- Integrated Supabase (PostgreSQL + Auth) for secure session handling, and automated analytics with Recharts/PDFMake to generate encrypted PDF reports, reducing manual reporting time by 60%.

NIFTY Stock Analysis (PySpark, Docker, Parquet, Streamlit) (Link)

- Engineered a Dockerized PySpark pipeline to analyze 10+ years of NIFTY50 stock data, computing daily returns, identifying 30+ shock days (≥2% drop), and measuring bounce-back rates using Spark window functions.
- Persisted 500+ processed records in Parquet/CSV, enabled SQL-on-Parquet queries (DuckDB/Spark SQL), and built an interactive **Streamlit dashboard** to visualize KPIs, per-stock trends, and bounce rates.

HealWell Hospital Website (Link)

- Designed and implemented a responsive front-end website with GSAP animations, parallax scrolling, appointment booking UI, and dynamic service listings; integrated a lightweight prompt-based AI chatbot and explored advanced UI features.

Constructify (Figma Prototype) (Link)

- Prototyped a platform to connect 3 key roles (builders, designers, suppliers); designed 10+ wireframes with dual-login flows and intuitive navigation for seamless collaboration.
- Optimized onboarding flow, reducing estimated learning curve for new users.

Technical Skills

Programming: C, Java, Python, JavaScript

Frontend: HTML, CSS, Tailwind CSS, React.js, Figma (UI/UX)

Backend: Node.js, Express.js, Flask

Databases/Storage: SQL, MongoDB, Supabase, Parquet

Data Eng/Big Data: PySpark, Docker, ETL, Data Pipelines, Jupyter

Data Science: Data Analysis, EDA, Feature Engineering, Predictive Modeling

Visualization/BI: NumPy, Pandas, Matplotlib, Seaborn, Power BI, Tableau, Excel

Tools/Platforms: Git/GitHub, Netlify, Streamlit

Certifications & Achievements

1st Runner-Up at **CodeCraft** (6-hour UI/UX Hackathon, Atharva College of Engineering) for designing *Constructify* among 30+ teams.

Completed Virtual **Forage** internships: **Tata** (Data Visualization) — built insights dashboards; **AWS Solutions Architecture** — designed secure, scalable cloud deployments.

Earned an **AWS Cloud Practitioner** badge for foundational cloud computing and deployment skills.

Electronic Arts - Software Engineering Job Simulation (Forage): completed debugging, feature development, and collaborative workflows.

Certified in **Figma UI/UX Design** (Zero to Mastery / Udemy) after designing 10+ interactive prototypes.

Leadership

Head Girl - Led a 15-member Student Council, coordinated 10+ large-scale school events, and managed end-to-end planning and logistics for 1000+ students.