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Muskaan Gupta

Professional Summary

Software Developer with strong experience in Python, JavaScript, and building scalable, data-driven web applications. Proven background in developing, testing, and deploying production-ready systems using APIs, cloud tools, and automated workflows. Experienced in system design, application reliability, and delivering features through modern CI/CD and release practices.

Target Role: Data Analyst | Data Scientist | Software Engineer

Technical Skills

- Python | Java | APIs | SQL | Git | CI/CD | GitHub Actions | Docker | Streamlit | React | Power BI
- Packages: NumPy, SciPy, Pandas, Matplotlib
- Statistics/ML: Linear/Logistic Regression, SVM, Random Forests

Soft Skills: Quick Learner, Problem solving, Team collaboration, Adaptability, Effective communication, Proactive, Time management

Professional Experience

Junior Solution Analyst - Full Time

Aug '22-Dec '22

Deloitte USI | Bangalore, IN

- Managed enterprise SAP security systems ensuring stable, reliable access for production users.
- Supported release validation, access control updates, and system configuration across multiple environments.
- Identified process improvements that increased system reliability and delivery efficiency.

Tech Stack: MySQL server, SAP

Web Developer - Full Time

Jan '22-Jul '22

SCAARFY - MG Creations | New Delhi, IN

With a presence in 20+ cities, SCAARFY has been leading scarves & stoles selling brand across India.

- Developed user interfaces with modern JavaScript frameworks, HTML5, and CSS3, which improved user satisfaction by 31%

KEY PROJECTS

Project: Agent 6 – AI-Powered Data Insights Tool | 2025 | Full Stack Developer

Tech Stack: Python, Streamlit, OpenAI API, CrewAI

- Built and deployed a Python-based AI analytics platform using Streamlit and OpenAI APIs, enabling users to upload datasets and generate automated insights and dashboards.
- Designed modular system architecture with API-based services to support scalability, extensibility, and reliable performance. Performed testing, debugging, and performance tuning to ensure system reliability for real MCCS users.

Project: Climate vs. Capitalism – Global Waste Management Analytics | 2025 | Frontend Developer / Research

Tech Stack: Python, Pandas, Streamlit, Plotly, Geopandas

- Built an interactive web app visualizing waste management, GDP, and sustainability metrics across countries
- Used choropleth maps, line plots, and bubble plots to enable comparisons between global policies and performance

Project: Healthcare Analytics Dashboard | 2024 | Backend Developer

Tech Stack: Power BI, SQL, Python

- Developed an interactive dashboard to visualize patient data, hospital KPIs, and resource utilization.
- Enabled better decision-making for healthcare professionals with trend analysis and real-time filters.
- Cleaned and transformed raw healthcare data into actionable insights.

Project: CalmCompass – Mental Health Tracker Web App | 2024 | Lead Developer

Tech Stack: React.js, Tailwind CSS, Firebase, Node.js

- Developed and deployed a full-stack React and Firebase application with secure authentication and persistent user data. Designed scalable frontend-backend architecture supporting growing user activity.
- Managed versioned feature releases, database updates, and UI deployments with rollback-safe updates.

Project: Bitcoin Historical Data Analysis | 2024 | Backend Developer / Research

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

- Analyzed Bitcoin market trends using technical indicators like moving averages and RSI.
- Preprocessed large datasets using normalization, standardization, and IQR techniques.
- Delivered insights on volatility and price correlations with trading volume.

Academic History

Virginia Polytechnic Institute & State University (Virginia Tech)
Master of Engineering in Computer Science & Applications | Virginia, USA
Major: Data Analytics & Artificial Intelligence

Jan '24- May '25

Amity University Uttar Pradesh
Bachelor of Computer Science & Applications | Uttar Pradesh, IN
Major: Artificial Intelligence & Cyber Security

Jul '19-May '22

Publications & Patents

Patent

An IoT sensor-based combination of solar cells and wind turbines to generate electricity | 202011045176

- Integrates IoT sensors with solar cells and wind turbines for efficient electricity generation
- Harnesses renewable energy sources through innovative sensor technology for sustainable power production

Research Papers

Android Controlled Field Tractor

- "Android Controlled Field Tractor" merges technology with agriculture for enhanced efficiency and precision
- Enables remote control and real-time monitoring of tractor operations, revolutionizing farming practices

Email Spam Detection Using Machine Learning Algorithms

- Utilizes machine learning to differentiate between legitimate emails and spam, minimizing the risk of malicious attacks
- Enhances email security and efficiency through advanced data analysis

The Use of Robots In Food And Warehouses

- Robots revolutionize food and warehouse industries, optimizing processes and increasing efficiency through automation.
- From food packaging to inventory management, robots streamline operations, reduce errors, and enhance productivity in both food and warehouse environments.

ORGANISATIONS

- Member of Girls Who Code - College Loops Program
- Member of ANITAB.ORG
- Member of AISES - American Indian Science and Engineering Society

CERTIFICATIONS

- Google Data Analytics - Coursera
- PCAP: Programming Essentials in Python - Cisco
- Introduction to Cybersecurity - Cisco
- The Complete App Design Course - UX, UI and Design Thinking - Udemy
- Data Analytics Virtual Experience - Accenture
- Data Analytics Consulting Virtual Internship - KPMG Australia
- Introduction to Generative AI Learning Path Specialization - Google Cloud

LANGUAGES

- English
- Hindi

ADDITIONAL ACHIEVEMENTS

- Awardee of "Shri Baljit Shastri Award for the Best in Human & Traditional Values"
- Awardee of "Best Organizer & Coordinator of Cultural Activities"
- Student Of The Year 2022
- Merit- Scholarship Holder (3 years consecutively during Undergrad)
- Coordinator in 40+ Events at Amity University