Sparsh Verma

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Summary

Versatile **AI/ML Engineer** and **Data Analyst** with a strong foundation in machine learning, data engineering, and software development. Combining a **Master's in Artificial Intelligence** with practical experience in database management, model deployment, and business intelligence. Proven ability to improve operational efficiency through data-driven solutions while maintaining **99.5%** data integrity across enterprise systems. Passionate about leveraging AI technologies to solve complex business challenges across diverse industries.

Education

Master of Science - Artificial Intelligence	**Queen Mary University of London**	09/2022 - 09/2023
Bachelor of Technology - Computer Science with specialisation in Cyber Security & Digital Forensics	**Vellore Institute of Technology**	07/2018 - 07/2022

- Summer Internship during B.Tech   Madhya Pradesh Police   05/2020 - 07/2020
  - I crafted an app featuring E-complaint Services (FIR), social media discussion forums, and a platform for cybersecurity resources and articles.
  - Spearheaded the geofencing module, achieving an impressive 86% improvement in accuracy compared to previous methods.
  - Reduced false location triggers by 60%.

Projects

- **Cyber.AI:** AI-powered cybersecurity tool - awarded Distinction for Master's thesis project, employing advanced machine learning techniques, including reinforcement learning for pinpoint exploit execution.
- **HyVuln**: A Hybrid vulnerability scanner, a comprehensive security tool for real-time cybersecurity assessment. Processed 10,000+ vulnerability patterns with 92% detection accuracy.
- **Max**: First AI GPT voice assistant, developed in Python using OpenAI and pyttsx3 libraries, implemented in an Android application using Android Studio.
- **Security App Development**: Messaging app with location tracking and SOS system, contributing to team-based coding and layout design.
- **BrainStorming Minds**: Website development project for a special needs children's clinic, achieving significant user base growth.
- **Morse Code Detector**: Python application utilising deep neural networks for Morse code detection, achieving remarkable accuracy.

Work History

Data Administrator   **Fullers Smith and Turner**   03/2024 - 11/2025

- Maintained 99.5% data integrity across multiple databases serving critical business operations
- Troubleshoot database issues and resolve problems promptly
- Created interactive Power BI dashboards serving 200+ stakeholders, improving decision-making efficiency by 25%.
- Implemented ETL pipelines using Hadoop, Spark, and Kafka, reducing data processing time by 35%.
- Ensuring all employment regulations are followed, including working hours, payroll, health and safety.

Brand Ambassador   **Meraki(London)**   01/2024 - 02/2024

- Served as the charismatic front-line brand ambassador (Sales) of HelloFresh-branded food items. Achieved targeted sales campaign for Hello Fresh at Meraki, resulting in a remarkable 25% increase in sales revenue within the first month.
- Achieved personal best (PB) sales record with 18 sales in a day and 41 sales in a week.
- Elevated customer satisfaction through personalised product recommendations, contributing to a 25% increase in repeat purchases and a substantial 30% surge in overall revenue.

Android App Developer   **DeepStory (India)**   06/2022 - 09/2022

- Developed cutting-edge social media applications at DeepStory, a startup focusing on REST API development and AWS database management.
- Played a pivotal role as a front-end developer and MLOps specialist, utilising Android Studio for front-end development and PyCharm for MLOps.
- Optimised reinforcement learning algorithms, achieving 20% accuracy improvement on recommendation systems

Skills

- C# | .NET | **Java** | **JavaScript** | TypeScript | C/C++ | PowerBI | MySQL | **Python** | Pandas | HMTL/CSS | NLP | Neural Networking.
- Multitasking | Highly Organised | Communication | Time Management | Teamwork | Adaptability | ESG Data | **GenAI**.
- Data visualization | Linux | **Reinforcement Learning** | Deep Learning | **AI & ML** | MS Office | **React** | AWS | RNN | SQLlite | **Azure**.

Certificates

- **Data Science in Real-world Projects(Sep, 2024):** I completed this course on Udemy, utilising **NLP, Machine Learning, and Time Series Analysis** to complete several projects (Refer to my [GitHub](#)).
- **Software Developer Mastery, Antipatterns(Sep, 2024):** In this course, I embarked on a comprehensive journey to master software development best practices. I learned what antipatterns are, common antipatterns, solutions for antipatterns, antipatterns in software design and antipatterns in software processes(Refer to my [GitHub](#)).
- **Goldman Sachs Software Engineering Job Simulation(Sep, 2024):** I completed a job simulation as a Goldman Sachs governance analyst responsible for assessing IT security and suggesting improvements. Identified that the company was using an outdated password hashing algorithm by cracking passwords using Hashcat (Refer to my [GitHub](#)).
- **Project Management Certification(Udemy)(Sep, 2024):** Completed an extensive course covering the full project management lifecycle, including Agile (Scrum) and Waterfall methodologies. Gained practical experience through case studies and the creation of essential project management documents.Developed skills in using MS Excel and project management tools like Gantt charts and the Critical Path Method (Refer to my [GitHub](#)).
- **Accenture Data Analytics and Visualisation (Sep, 2024):** Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture. Cleaned, modelled and analysed 7 datasets to uncover insights into content trends to inform strategic decisions (Refer to my [GitHub](#)).
- **Kubernetes Certified Application Developer (Dec 2025):** Gained hands-on experience designing and implementing cloud-native solutions using Kubernetes clusters. Practised real-world deployment scenarios through coding labs and assignments, improving speed and accuracy in cluster management tasks. Collaborated with peers on Kubernetes challenges and received detailed feedback on solutions. Built a strong foundation in container orchestration aligned with CKAD certification standards.
- **Generative AI Bootcamp (Dec 2025):** Completed "Generative AI Bootcamp" with pre-read certification, gaining foundational expertise in machine learning, neural networks, large language models, and cross-industry applications of Generative AI for business decision-making.