

Sparsh Verma

[LinkedIn](#) | [+918454844419](#) | sparshv48@gmail.com | Mumbai, India | [GitHub](#)

Summary

I'm an **AI/ML engineer** and **certified data professional** with a Master's in **Artificial Intelligence**, passionate about turning complex data into meaningful insights that actually help people make better decisions. I've worked across enterprise systems ensuring data stays accurate and reliable, consistently maintaining a 99.5% integrity rate. With **Google certifications** in Data Analytics and Business Intelligence, I focus on building automated ETL pipelines, clear visual dashboards, and intelligent solutions that bridge the gap between raw data and real business strategy. I enjoy solving problems, collaborating with stakeholders, and using data-driven thinking to improve efficiency, performance, and outcomes.

Education

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

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

<u>Data Administrator</u>	<u>Fullers Smith and Turner</u>	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.		
<u>Summer Intern(App Development)</u>	<u>MP Police</u>	05/2020 - 07/2020
• Improved geofencing accuracy by 86% through model redesign and optimised location intelligence algorithms		
• Reduced false alerts by 60%, significantly enhancing operational security reliability		
• Built secure citizen-service modules (E-FIR & digital complaint systems) supporting real-world deployment readiness		
<u>Android App Developer</u>	<u>DeepStory (India)</u>	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

- **Artificial Intelligence & ML:** PyTorch • Deep Learning • NLP • Reinforcement Learning • Neural Networks
- **MLOps & Engineering:** Kubernetes • AWS • CI/CD • Model Deployment • Pipeline Optimisation
- **Big Data & ETL:** Hadoop • Spark • Kafka • Data Processing Automation
- **Business Intelligence:** Power BI • Tableau • BigQuery • KPI Analytics • Reporting Automation
- **Programming:** Python • Java • C/C++ • SQL
- **Databases & Tools:** MySQL • Linux • REST APIs • Git

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](#)).
- **Google Data Analyst Certificate (Dec, 2025):** Completed 8-course rigorous training covering the full data lifecycle; proficient in data cleaning, analysis, and visualisation using SQL, R, Tableau, and Spreadsheets.
- **Google Business Intelligence Certificate (Dec, 2025):** Mastered end-to-end BI workflows, including ETL processes and the development of high-impact dashboards using BigQuery and Tableau to drive data-driven organisational decisions.
- **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.