

# Sparsh Verma

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## 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 &amp; 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 • Generative AI
- 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 • Credit Analysis
- Programming:** Python • Java • C/C++ • SQL
- Databases & Tools:** MySQL • Linux • REST APIs • Git

## Certificates

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Links to all the certificates are available on my [LinkedIn](#) profile.

- Data Science in Real-world Projects
- Google Data Analyst Certificate
- Google Business Intelligence Certificate
- Software Developer Mastery, Antipatterns
- Goldman Sachs Software Engineering Job Simulation
- Project Management Certification
- Accenture Data Analytics and Visualisation
- Kubernetes Certified Application Developer
- Generative AI Bootcamp
- JPMorgan Chase & Co. Quantitative Research
- Tata GenAI Powered Data Analytics