

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</u> <u>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 pytsx3 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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

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