

Ajay Aryan

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Summary

Data Scientist and Full-Stack Developer with deep experience in Data Engineering and Enterprise Application Management. Expert in SQL Server, Oracle, and PostgreSQL optimization, ASP.NET MVC development, and cloud integration (hybrid and native). Leverages Python, C#, PL/SQL, and AI/ML for advanced predictive analytics, process automation, and business intelligence. Proven success managing the full development lifecycle and deploying end-to-end solutions in on-premises and cloud environments.

Skills and Technologies

- **Programming:** Python, R, SQL, PL/SQL, C#, Java, HTML/CSS, JavaScript
- **Frameworks:** ASP.NET MVC, .NET Core, Angular, React, Node.js, Express.js, Flask, Django, Bootstrap, jQuery
- **Databases:** SQL Server, Oracle Sql developer, MySQL, SSMS, Database Admin, PostgreSQL, Snowflake, MongoDB
- **Data Engineering:** ETL/ELT, SSIS, Airflow, dbt, Fivetran, Data Modeling, Stored Procedures
- **Big Data:** Spark, Kafka, Hadoop, Databricks
- **Cloud:** AWS (EC2, S3, RDS, Glue, Lambda, SageMaker), Azure (ADF, Synapse), GCP (BigQuery)
- **ML & AI:** Scikit-learn, TensorFlow, PyTorch, XGBoost, NLP (Transformers/BERT), Gen AI, LangChain
- **Visualization & Reporting:** Power BI, Tableau, Excel (Advanced), SSRS
- **DevOps & Tools:** Docker, Kubernetes, Jenkins, Git/GitHub, TFS, GitHub Actions, Azure DevOps
- **IDE & Development Tools:** Visual Studio, VS Code, JIRA, Postman, Informatica, Service Now, Orion, Informatica
- **Testing & Automation:** Selenium, Postman, PyTest, Unit Testing, Automated/Manual Testing, E2E Testing, Debugging
- **Methodologies:** Agile/Scrum, SDLC, Code Reviews, Data Governance

Work Experience

Florida Highway Safety and Motor Vehicles, Florida (Application System Programmer III)

Jul 2025 – Dec 2025

- Designed, developed, and maintained enterprise applications using C#, ASP.NET MVC, and SQL to support mission-critical DMV operations, ensuring reliability and scalability.
- Optimized business workflows across Oracle Fusion, EBS, and PeopleSoft by building SQL/PL-SQL reports, automating data processes, and integrating HR, payroll, and financial systems.
- Managed the end-to-end SDLC, from requirements gathering and solution design to coding, testing, deployment, and post-production support across multiple environments (Dev, QA, UAT, Production).
- Developed and tuned complex SQL Server and Oracle queries, stored procedures, and batch jobs to improve performance and data accuracy.
- Utilized Oracle SQL Developer, SSMS, and Postman for database management, troubleshooting, and end-to-end API/system validation.
- Streamlined IT service management by administering and customizing ServiceNow workflows, while leveraging Orion for system monitoring and performance optimization.
- Collaborated with Agile/Scrum teams for sprint planning, backlog grooming, and code reviews, ensuring timely delivery, compliance, and high-quality releases.
- Strengthened security and governance through access control, data protection, backup, and recovery strategies, while providing Tier 2/3 support for critical application and database issues.

SNTIMNT.AI, Florida (Team Lead)

Jan 2025 – Apr 2025

- Led a team of five and spearheaded a real-time trading application built on Python, integrating sentiment analysis for crypto trends and live transaction automation via REST APIs.
- Oversaw full-stack development using Visual Studio, GitHub, SQL, and JavaScript frameworks, optimizing execution speed and reducing data latency by 70%.
- Fine-tuned BERT models on AWS EC2 and deployed via SageMaker for scalable AI-driven insights; reduced model deployment time from 8 to 2 hours.
- Managed AWS-backed web hosting (Amplify+Route 53) & developed SPA feature to ensure fast, mobile-responsive experience
- Facilitated Agile stand-ups, conducted code reviews, and maintained documentation for consistent team velocity and knowledge transfer.
- Built secure data pipelines and leveraged CI/CD practices for model retraining and deployment, aligning with CSDM and CMDB structures for operational excellence.
- Delivered production-ready interfaces and integrated backend components with robust error handling and detailed test case.

Capgemini Technology Services (Data Engineer-Associate II)

Jul 2020 – Jul 2023

- Developed and optimized SSIS, SQL Server, and Python-based data pipelines, improving system performance and reducing data latency by over 40%.
- Performed advanced data analytics using SQL, Python, and statistical techniques—building dashboards, forecasting trends, and generating insights for business decisions.
- Built and tuned machine learning models such as linear/logistic regression, random forests, and TensorFlow NLP models, improving prediction and classification accuracy by up to 30%.
- Designed and deployed .NET dashboards and REST APIs integrated with SQL Server to deliver real-time, data-driven visualizations and customer-facing solutions.
- Automated recurring workflows using Python, LangChain, and scripting, increasing operational efficiency by 60% and reducing production issues.
- Improved DevOps pipelines using Git, Jenkins, and Docker, reducing deployment time by 40% and ensuring consistent releases across environments.
- Conducted manual and automated testing using Selenium, Postman, and PyTest to validate data pipelines, APIs, ML outputs, and CI/CD releases.
- Provided Tier 2/3 support for Windows servers, SQL Server patching, and Active Directory, maintaining 99.9% system uptime.
- Received an Excellence Award at Capgemini for high-impact performance, innovation, and delivery across client projects.

Geneobits Pvt. Ltd. (Data Analyst Intern)

Jan 2020 – Jun 2020

- During my internship at Geneobits, I gained hands-on experience in data analysis and processing. I worked with large datasets, performing data cleaning, validation, and transformation tasks to ensure data integrity and consistency. I also used statistical tools and Python libraries like Pandas and NumPy to analyze trends and generate insights that informed decision-making. My work contributed to optimizing operational processes and improving data reporting accuracy for internal stakeholders. This internship laid the foundation for my deep interest in data science and analytical methodologies.

Certifications

- Oracle Database Services 2025 Certified Professional[[Certificate](#)]
- OCI 2025 Certified Data Science Professional[[Certificate](#)]
- Google Data Analytics Certified Professional[[Certificate](#)]
- Microsoft Security Fundamental
- CJIS Certification[[Certificate](#)]

Projects

Dynamic Airlift [[Link](#)]

Sep 2024 – Nov 2024

- Developed a Python pipeline to fetch, analyze, and visualize NYC air quality data using OpenWeatherMap API.
- Built an automated data pipeline using Airflow for real-time updates, reducing manual effort by over 50%.
- Built an interactive dashboard with Matplotlib, Seaborn, and Plotly for real-time pollution monitoring.
- Applied statistical analysis to identify trends, correlations, and threshold exceedances in air pollutants.

Stock Price Prediction [[Link](#)] [[PPT](#)]

May 2024 – July 2024

- Developed an optimized ML models for stock price prediction with 85% accuracy using time series forecasting.
- Implemented and fine-tuned LSTM networks to capture complex temporal dependencies in financial trends.
- Enhanced model performance through comprehensive EDA, feature engineering, and AI-driven analytics tech.

Chronic Disease Prediction [[Link](#)]

Sept 2023 – Nov 2023

- Developed predictive models for disease prediction using GridSearchCV, increasing model accuracy to 90%.
- Enhanced data visualization with Tableau to get better insights, improving stakeholder comprehension by 35%.
- Conducted data analysis with KNN and Naive Bayes to effectively target high-risk demographics.

Education

Florida State University, (Master's) - Data Science (Mathematics, GPA: 3.7/4)

Aug 2023 – May 2025

- Developed predictive models with 92% accuracy using neural networks for trend forecasting.
- Applied Bayesian inference, PCA, and dimension reduction techniques to enhance feature selection process.
- Conducted research on regularization techniques (L1, L2) and ensemble learning to improve regression model.

Pune University (Bachelor's) – E&TC (GPA - 3.78/4)

Aug 2016 - May - 2020

- Developed an advanced IoT-based monitoring system with MQTT, reducing energy consumption by 20%.
- Built a strong foundation in ML, signal processing, and embedded systems using Python, MATLAB, and C prog.

Soft Skills

- Leadership & Collaboration: Team Leadership, Mentorship, Cross-Functional Collaboration, critical thinking.
- Project & Time Management: Agile, Scrum Methodology, Sprint Management, Time Management
- Communication & Client Management: Client Relationship Management, Documentation & Reporting

Bootcamp:**Erdos Institute (Data Science Bootcamp)**

May 2024 - Jul 2024

- During the summer, I enrolled in the Erdos Institute Data Science Bootcamp, where I immersed myself in the world of time series forecasting and machine learning models. The bootcamp provided me with a deep understanding of statistical methods and advanced machine learning techniques, specifically geared towards predicting trends and making data-driven decisions in the financial sector.
- I applied these skills to a project focused on stock market prediction, where I leveraged time series analysis to model and forecast stock prices. By working with historical data, I employed techniques such as ARIMA, exponential smoothing, and machine learning models like decision trees and random forests to build predictive models. My ability to fine-tune the models allowed me to achieve a high level of accuracy in forecasting stock price movements, which was a key accomplishment of the project.
- Throughout this experience, I gained hands-on knowledge of financial analysis, learning how to interpret financial data and trends while applying machine learning to enhance predictive accuracy. I also explored various performance metrics to evaluate the models, ensuring that the predictions were both actionable and reliable.

Volunteering:**TedxFSU, Florida (Venue and Tech)**

Dec 2024 – Apr 2025

- Contributed to the success of TEDxFSU as a member of the Venue and Tech Team, where I combined technical skills and creativity to enhance the event experience. I took charge of updating and maintaining the TEDxFSU website using HTML, CSS and JavaScript, ensuring it was fully functional and aligned with event goals. I also collaborated with the team to design and implement innovative venue setups, optimizing both the technical and physical aspects to create a seamless event atmosphere.
- In addition, I served as a speaker coach and worked closely with the speaker to refine her presentation, offering feedback and coaching to help her deliver her ideas with confidence and clarity. This experience allowed me to blend technical expertise with communication skills while guiding others to effectively share their message.

Volunteer – Blood Donation Drive

- Supported event setup, donor check-ins, and crowd coordination to ensure a smooth donation process.
- Helped raise awareness on the importance of blood donation and encouraged participation within the community.

Extracurricular Activities

- Running, Hiking, Football, Cooking, Reading, Painting, Workout, Board games