Jaheem Edwards

Valsayn, Trinidad and Tobago

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Phone: 1 (868) 477-5005

Date: 25/11/2025

To Whom it may concern,

Mathematics has always been the foundation of how I understand the world. Statistics helps me make sense of complex information, and probability guides how I think about decisions and outcomes. My name is Jaheem Edwards, and I am passionate about using data, logic, and analytical thinking to create meaningful impact within organizations.

My interest in artificial intelligence and data driven technologies began in 2019 after watching a documentary series that transformed the way I viewed the future of work. From that moment, I intentionally shaped my academic path toward this field; choosing Applied Mathematics, Pure Mathematics, and Physics in Sixth Form. I later received a Merit Bursary from the Ministry of Education, which supported my pursuit of a BSc in Computer Science at the University of the West Indies. I recently graduated and have since been developing my skills in data science through hands-on projects, certifications, and real world experience.

I am driven by the opportunity to work with data in all forms; discovering insights, answering business questions, and developing models that support better decision making. My goal is to add value to an organisation by improving efficiency, enabling evidence based strategy, and helping teams operate with greater clarity.

During my internship at Agostini Limited, I had the opportunity to make a measurable impact. A colleague had been manually extracting and cleaning an Excel report containing over 680,000 rows of data across five years. The process was slow, error prone, frequently crashed, and could take up to five hours. After analyzing the issue, I designed and implemented an automated ETL pipeline supported by an API that pulled data directly from the ERP system, cleaned it, and loaded it into a database. This reduced processing time from hours to seconds, dramatically improving productivity and enabling the team to access time sensitive insights with ease. The solution enhanced decision making, saved time and resources, and resolved a longstanding operational bottleneck.

I am eager to bring this same problem solving mindset, technical skill, and dedication to continuous improvement to your organisation. I am confident that my analytical background, combined with practical experience building data driven solutions, will allow me to add meaningful value to your team.

Thank you for your time and consideration. I would welcome the opportunity to discuss how I can contribute to your organisation.

Best Regards,

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EXPERIENCE:

Data Scientist:
Acado Foods - 2 Months Contract

November 2025 – December 2025 | Port of Spain, Trinidad and Tobago

- Guided the development and integration of outsourced ML models into company systems.
- Prepared and validated datasets for model training and evaluation.
- Automated data extraction and transformation with Python and SQL.
- Defined business metrics and monitored post-deployment model performance.
- Designed dashboards and reports for insight communication.

Developer Intern:
Agostini Limited - Internship

July 2025 - October 2025 | Port of Spain, Trinidad and Tobago

- Built an end-to-end data pipeline GUI automating ERP sales data ingestion, transformation, and visualization using Python, PostgreSQL, and Streamlit.
- Created secure REST APIs and interactive dashboards for real-time analytics.
- Designed software prototypes based on user journeys and business requirements.
- Explored AI tools and mapped business data to support predictive analytics.
- Contributed to testing, debugging, documentation, and architecture planning.

EDUCATION:
BSc. Computer Science (Special) — The University of the West Indies *(Jul 2025)*

TECHNICAL SKILLS:
- Programming: Python, Bash – data processing, automation, and backend development
- Frameworks: Streamlit – built and deployed web apps for ML model visualization
- ML & Data Tools: scikit-learn, TensorFlow, Pandas, Matplotlib – model development, data analysis, and visualization
- Databases: PostgreSQL, MySQL, SQLAlchemy – designed ETL pipelines and APIs for data storage and retrieval
- Automation & DevOps: Power Automate, Git, Linux, Docker, CI/CD, API Development – automated data ingestion from Outlook to Python pipelines and containerized deployments

SOFT SKILLS:
Analytical thinking, problem solving, business acumen, communication, collaboration, adaptability, attention to detail, continuous learning

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CERTIFICATIONS:
- Data Science: Machine Learning - Codecademy *(Sep 2025)*
- Machine Learning/AI Engineer - Codecademy *(Oct 2025)*
- Build Deep Learning Models with TensorFlow - Codecademy *(Oct 2025)*
- SEC-100: Introduction to Cybersecurity - OffSec *(In Progress)*

PROJECTS - Portfolio Website: Project Portfolio

Trinidad & Tobago News Analytics Dashboard: Live Demo | GitHub
- Scraped **64,000 news articles** (2017–Nov 2025) from major Trinidad & Tobago news outlet.
- Processed **5,479 articles** from the most recent year and generated **LLM-based text embeddings** using Ollama.
- Performed **K-Means clustering** and **UMAP dimensionality reduction** to uncover major themes and answer analytical questions.
- Applied **NLP techniques** (TF-IDF, keyword extraction) to determine dominant topics and trends.
- Built an **interactive Streamlit dashboard** that supports:
  - Cluster exploration, Similar-story semantic search, Topic trend visualization over time

Telco Customer Churn Prediction: Live Demo | GitHub
- Predicts which telecom customers are likely to churn using account info, services, and usage patterns.
- Features an interactive web app with probability visualization and data exploration.

Market Regime Markov Model: Live Demo | GitHub
- Analyzes stock and cryptocurrency prices to identify market regimes (Bull, Bear, Neutral/Correction) and model transitions using a Markov Chain.
- Includes interactive visualizations: price charts, heatmaps, transition matrices, steady-state probabilities, and future regime simulations.

A/B Testing Analysis App: Live Demo | GitHub
- Analyzes A/B test results on a simulated retail website to determine if a background color change improves user engagement.
- Features interactive charts, boxplots, segmentation insights, and hypothesis testing explanations with plain-language conclusions.

Forest Fire Prediction: Live Demo | GitHub
- Predicts the likelihood of wildfires in the USA based on location, weather, and environmental features.
- Interactive web app with map and risk indicators.

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<u>Automated Data Warehouse:</u>   <u>Live Demo</u> | <u>GitHub</u>

- Built an automated data warehouse that collects real-time weather data from the OpenWeather API for world capitals.
- Developed a full ETL pipeline using Python, SQLAlchemy, and PostgreSQL hosted on Neon.
- Created an interactive Streamlit dashboard to visualize insights and trends.
- Automated data collection and transformation using GitHub Actions.

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Stock Analysis and Predictions (University Project)   Report | GitHub

- Built a Streamlit app to visualize and forecast S&P 500 stock trends using machine learning models (Random Forest, XGBoost).
- Combined technical indicators and sentiment analysis for investment insight generation.

Amazon Reviews: Data Science and Machine Learning (University Project) Report | GitHub

- Processed 200GB of Amazon Reviews across 34 categories using Spark and MLlib.
- Built sentiment classification, recommendation, and clustering models to extract actionable insights.

Fake News Detection (University Project):   Report | GitHub

- Developed fake news detection models using Logistic Regression, XGBoost, and BERT.
- Built a Streamlit app for real-time predictions and interactive model comparison.

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