

# JASMINE CHRISTOPHER

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## EDUCATION

### Master of Science in Data Science

Indiana University - Bloomington, USA

August 2024 – May 2026

**Coursework:** Machine Learning, Statistics, Advanced Database Technologies, Data mining, AI, Data Visualization

### Bachelor of Engineering in Electronics and Instrumentation

Anna University - Chennai, India

August 2018 – May 2022

**Coursework:** Data Structures, Cloud Computing, Object Oriented Programming, Python, C

## TECHNICAL SKILLS

**Programming Languages:** Python, R, C#, Core Java, QuickScript.NET

**Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow, Seaborn, PyTorch, Keras, Matplotlib, Plotly, XGBoost, Hugging Face Transformers

**Data Visualization:** Tableau, Power BI, SSRS, Excel

**Databases:** SQL Server, MySQL, Oracle SQL, SQLite, PostgreSQL, Relational Database

**Developer Tools:** Git, GitHub, Jira, Visual Studio, Jupyter Notebook, Google Colab, XML, Microsoft Azure

**Others:** Linux, MacOS, Scrum, Slack, ServiceNow, Debugging, Technical Documentation

## WORK EXPERIENCE

MES Lite | Angular, HTML, CSS, .NET, SQL Server, API, Swagger, MySCADA, Visual Studio, javascript

January 2024 – June 2024

- Developed MES Lite, a proprietary Manufacturing Execution System, utilizing .NET and Angular to enhance production tracking and data management.
- Constructed interactive data visualization interfaces using HTML and CSS, with seamless integration of popup forms linked directly to databases. Upgrading data access and decision-making by developing and integrating over 30 reports.
- Engineered a robust XML processing mechanism using .NET, automating the extraction and seamless database integration of data, which ensures accuracy and real-time availability.
- Led a comprehensive overhaul of complex databases and facilitated seamless transitions to more scalable server solutions, which resulted in improved system reliability with zero downtime during migration periods.
- Created a secure, custom login interface using Angular, HTML, and CSS, with Multi-Factor Authentication (MFA) including text messages, email confirmations, and authentication apps to enhance system security.
- Designed and tested RESTful APIs using Swagger and MySCADA tools within Visual Studio, ensuring robust data integration and real-time functionality within the MES Lite web interface.

### Junior MES Engineer | Mindsprint

January 2023 – June 2024

COVL | SQL server, C#, SSRS, QuickScript.NET, javascript, Aveva tools

Chennai, India

- Enhanced productivity by 30% through implementing and optimizing the Evaporation Line, improving data collection and analysis.
- Designed and optimized automated systems, streamlining multi-line operations and minimizing production bottlenecks.
- Constructed automated reporting features within the MES that provided real-time performance analytics; this development enabled rapid decision-making processes saving approximately 15 hours weekly previously spent compiling manual reports.
- Resolved critical technical issues in real time, achieving 90% reduction in downtime and ensuring consistent production flow.
- Collaborated with on-site teams in Vietnam for over 2 months to develop and enhance plant lines, leveraging strong communication and teamwork to achieve operational improvements and system upgrades.

## PROJECTS

**Kidney Disease Predication Model** | matplotlib, numpy, pandas, scikit-learn, xgboost, plotly, lightgbm, seaborn

2024

Engineered a machine learning model achieving 99% accuracy with Gradient Boosting, leveraging multiple algorithms for early kidney disease detection and proactive patient care.

**Stock Market Forecasting** | Python, PowerBI, Streamlit, Yahoo Finance API

2023

Developed a stock market forecasting app using LSTM and Random Forest models, featuring a Streamlit dashboard for real-time S&P 500 insights. Achieved 53% precision with LSTM and 59% with Random Forest, laying the groundwork for enhanced market prediction.

**Purchase Behavior Analysis** | Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn

2023

Developed and optimized a Random Forest forecasting model, achieving an R-squared of 0.863. Enhancing the model accuracy leads to improved inventory management and promotional strategies, boosting operational efficiency and revenue.

**Eardrum Image Classification** | CNN, AlexNet, and ResNet-18, MATLAB, Deep Learning

2022

Created a MATLAB-based CNN system for diagnosing middle ear conditions, comparing CNN, AlexNet, and ResNet. AlexNet led with 84.9% accuracy and an 85.7% F1 Score, proving effectiveness in medical image analysis for otology and outperforming the other models.

## CERTIFICATES

Datacamp SQL Associate Certificate - Validated advanced SQL expertise for data management and analysis.

Google Data Analytics Professional Course - Completed a structured program on advanced analytics techniques.

Python Programming Certification — Earned from IIT-M in collaboration with GUVI