

# Vishwak Balaji Jayasankar

**LOCATION:** FL | **EMAIL:** VISHWAKJAYASANKAR@GMAIL.COM | **PHONE:** +1 (561) 552-6556  
| [LINKEDIN](#) | [GITHUB](#)

## PROFESSIONAL SUMMARY:

Data Analyst with a strong foundation in statistical analysis, data visualization, and machine learning, backed by 2+ years of professional experience and a Master's in Data Science & Analytics. I've worked across diverse domains like finance, supply chain, and product forecasting using tools like Python, SQL, Power BI, and Azure. Passionate about delivering business insights through data storytelling and predictive modeling. Currently on OPT and open to roles involving analytics, forecasting, and data engineering.

## EDUCATION:

### Master's in Data Science and Analytics

Florida Atlantic University, FL

**CGPA: 3.86/4.00**

**Jan 2024 – April 2025**

### Post Graduate Diploma in Data Science

Praxis Business School, India

**CGPA: 3.5/4.0**

**Jan 2021 – Nov 2021**

### Bachelor of Engineering in Mechanical Engineering

SNS College of Technology, India

**CGPA: 7.98/10.00**

**Mar 2016 – Mar 2020**

## CERTIFICATION:

### Microsoft Azure Data Factory & Azure Machine Learning

**Pursuing**

## SKILLS:

### Languages:

Python, SQL, DAX, R, Shell Scripting

### Libraries&Frameworks:

Pandas, NumPy, Scikit-Learn, XGBoost, Matplotlib, Seaborn, Plotly, PySpark

### Data Visualization:

Power BI, Tableau

### Databases:

SQL Server, MySQL, PostgreSQL, Azure SQL, Snowflake

### Machine Learning:

Regression, Classification, Clustering, Time Series (ARIMA, Prophet)

### Deep Learning & NLP:

TensorFlow, Transformers, Hugging Face, LSTM, NLTK, Spacy

### Cloud Platforms:

Microsoft Azure (ADF, Databricks, Blob Storage, ML Studio), AWS

### ETL & Data Engineering:

Azure Data Factory, Azure Databricks

### Web & App Tools:

Streamlit, FastAPI, OpenAPI

### Version Control & APIs:

Git, GitHub, REST APIs

### Tools & IDEs:

Jupyter Notebook, VS Code, Anaconda, Excel, Google Sheets

## EXPERIENCE:

### Dell Technologies

**FL**

Data Analyst

**April 2025 – Present**

- Collaborate daily with cross-functional teams to support data-driven decision-making by extracting, cleaning, and analyzing datasets using Python (Pandas, NumPy) and SQL Server.
- Build and maintain Power BI dashboards to visualize operational metrics and business KPIs, improving reporting efficiency for internal stakeholders by 25%.
- Design and execute time series forecasting models to assist the demand planning team with predictive insights for product logistics and supply chain flows.
- Leverage Azure Databricks and Azure Data Factory for ETL processes and scalable data pipeline development, handling structured and semi-structured data.
- Perform NLP-based analysis on customer feedback and support tickets using Transformers, delivering sentiment trends to enhance customer service metrics.
- Support automation of internal reporting processes through Streamlit and FastAPI, reducing manual effort and improving team agility.

**Innover Digital Pvt. Ltd.****India**

Data Analyst

**December 2021 – June 2023**

- Designed and deployed a scalable predictive modeling pipeline using Azure Databricks, Blob Storage, and Python, processing over 500K+ records and improving anomaly detection rates from 69% to 94.5%.
- Conducted daily data extraction, cleaning, and feature engineering using SQL Server, Pandas, and NumPy, ensuring consistent data quality and reducing ETL errors by 30%.
- Performed time series forecasting for 10+ industrial clients using ARIMA, Prophet, and XGBoost, resulting in a 26% improvement in forecast accuracy (67% → 93%).
- Built custom Power BI and Tableau dashboards to support executive decision-making across finance and supply chain domains, reducing report turnaround time by 40%.
- Developed an AI-powered marketing optimization model using NLP and Transformers, which increased digital reach by 30% and enhanced user trust via secure, privacy-compliant data handling.
- Supported model deployment using Streamlit and FastAPI, enabling interactive web apps for internal demoing and client-side delivery.
- Authored detailed documentation and reusable model pipeline templates, improving internal team onboarding and reducing ramp-up time by 40%.
- Mentored junior analysts and collaborated closely with cross-functional teams during final project phases to ensure smooth end-to-end delivery of analytics solutions.

**Trigent Software****India**

Data Analyst - Intern

**April 2020 – December 2020**

- Assisted in data collection, data cleaning, and preprocessing using Python (Pandas, NumPy) and Excel, supporting the senior data analytics team across ongoing projects.
- Performed exploratory data analysis (EDA) and summarized key findings to identify trends and patterns in customer and operational data.
- Supported dashboard creation in Power BI for internal use cases, including client performance tracking and weekly business metrics.
- Wrote SQL queries to retrieve, filter, and join datasets from relational databases, enabling faster ad-hoc reporting for project managers.
- Contributed to basic machine learning model prototyping under supervision using Scikit-learn, including classification models for customer segmentation.
- Documented key workflows and data dictionaries to ensure team-wide clarity and smooth project handovers.

**PROJECTS:****SALES FORECASTING: ML, Deep Learning & Temporal Modeling**[GitHub](#)

- Developed a complete data modeling and predictive analytics pipeline on 40,000 multi-branch retail records, using statistical analysis and transformation techniques including lag variables, holiday flags, and seasonality indicators; applied 10 forecasting models (e.g., ARIMA, CNN-LSTM, Prophet) to identify temporal patterns and future demand.
- Reduced RMSE by 70% through iterative modeling and trend analysis, confirming linear regression as the most stable performer (MAPE: 0.29%); enabled accurate 7-day sales forecasting and optimized business decisions on workforce and inventory.

**BURNOUT PREDICTION: PCA-Based Risk Forecasting with KNN & Regression**[GitHub](#)

- Executed data profiling and dimensionality reduction on 10,000 HR records to uncover hidden patterns; selected the top 5 components explaining 98% of data variance related to employee burnout factors such as workload and company culture.
- Achieved 86% accuracy using regression-based predictive modeling, outperforming KNN by 3%; validated statistical software outputs on unseen samples to support early wellness interventions via data interpretation and quality assurance.

**DATA QUALITY AUTOMATION PLATFORM (Client-Facing Solution)**

- Spearheaded AI-based data remediation across 15+ unstructured datasets by applying statistical analysis and data cleaning techniques, reducing anomaly rate by 53%; leveraged Power BI with data visualization tools to showcase before-and-after results, enhancing clarity through compelling data storytelling.
- Deployed the end-to-end solution using Streamlit with integrated data transformation, modeling, and warehousing flows; improved structured output accuracy from 39% to 92% and supported over 25 users with automated predictions, governed uploads, and real-time forecasting features.