**Personal Information:**

* Name: Jayanth Nayak Malothu
* Email: malothu.j@northeastern.edu
* Phone: 617-999-2661
* LinkedIn: https://www.linkedin.com/in/jayanthnayak373/
* GitHub: https://github.com/JayanthCSV

**Academic Background:**

* Master’s in Analytics (Applied Machine Intelligence), Northeastern University, Boston, MA (GPA: 3.8/4) - Expected Dec 2024
* Diploma in Software Engineering, European Open University, Mar 2022
* Bachelor of Technology in Mechanical Engineering (GPA: 3.04/4), Amity University, Jaipur, Rajasthan (Minor: Marketing Management), Aug 2017 - Jun 2021

**Certifications:**

* AWS Cloud Practitioner (CLF-02)
* Snowflake Core Pro (COF-C02)

**Professional Experience:**

1. **Graduate Research Assistant, Northeastern University** (Jan 2024 - Present)
   * Conducted sentiment analysis in financial markets using NLP models (TF-IDF, Bag of Words, FinBERT).
   * Extracted and managed data using BeautifulSoup, GCP BigQuery, PostgreSQL, and Airflow.
   * Improved model processing efficiency by 17%.
2. **Data Engineer Intern, Workstam, Irving, TX** (Apr 2024 - Jun 2024)
   * Built data pipelines using Python, Snowflake, AWS.
   * Developed Tableau dashboards, reducing data errors by 25% and improving efficiency by 35%.
   * Implemented real-time data streaming with AWS Kinesis, reducing latency by 40%.
3. **QA Automation Engineer, Finastra Software Solutions, Bangalore, Karnataka** (Jun 2022 - Dec 2022)
   * Increased automation coverage from 20% to 85% using Java and Selenium.
   * Implemented critical business flow automation in DevOps on Azure Cloud.
4. **Data Analyst Intern, Telangana State Power Generation Corporation Ltd.** (Aug 2021 - Feb 2022)
   * Conducted turbine efficiency studies using Solidworks, ANSYS, and SCADA systems.

**Projects:**

* InfoBuddy AI: Interactive chatbot using Streamlit, LangChain, ChatGroq API
* PDFChatMate: Conversational Q&A App using LangChain, HuggingFace, RAG
* Next Word Prediction: LSTM model for real-time word predictions
* Real Estate Agent Recommendation System: AI-powered recommendation system with NLP and real-time processing

**Publications:**

* "Sentiment Dynamics in Financial Markets: A Multi-Level Approach to Stress Analysis Across Diverse Communication Channels"
* "Assessing Racial Disparities in Real Estate Appraisals Across U.S. Metropolitan Areas"

**Technical Skills:**

* Tools: MySQL, NoSQL, PostgreSQL, Tableau, Power BI, Airflow, Jira, Apache Kafka, AWS (Glue, S3, Lambda, EC2), Snowflake, Azure, Docker, Databricks
* Programming: Python, Java, SQL
* ML/DL/AI: Regression, Classification, Clustering, CNN, ANN, RNN, NLP Techniques, GenAI, LLMs

**Personal Interests:**

* Professional Soccer Player: Played for Churchill Brothers FC
* Favorite Soccer Club: Manchester United FC
* Gym Enthusiast: Loves doing squats any day of the week
* Automobile: Enjoy to learn more about cars and motorcycles (Owns a KTM Adv 390)
* Music: Listens to Kanye West songs at the gym

**Achievements:**

* Cleared UPSC Combined Defense Services Examination (2021)
* Qualified Joint Entrance Examination (JEE Mains) (2017)
* Vice-Captain, Aerolith, Amity School of Engineering Technology
* Captain, Amity University Soccer Team (Led team to Inter-state trophy and Santosh Trophy runner-up)
* CPS Leaders and Scholars Award ($6,000 Scholarship), Northeastern University
* Merit Scholarship, Amity University (50% tuition reduction)

**Research Interests:**

* Advanced machine learning applications in public policy, finance, and supply chain management
* Focus on adaptive and equitable systems for operational efficiency and resource fairness

**Volunteer Experience:**

* Student Head Coordinator for Sangatan Program 2019, organizing inter-college sports events with participants from over 20 universities

**Languages:**

* English (Fluent)
* Hindi (Fluent)
* Telugu (Native)