

# JAYASURYA JEGADEESAN

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## ACADEMIC QUALIFICATION

Northeastern University (Boston, United States)

Expected May 2025

Master of Science in Data Analytics Engineering, GPA: 3.745/4.0

Relevant Modules: Foundation of Data Analytics Engineering, Computation and Visualization for Analytics, Data Management for Analytics and Data Mining in Engineering

Anna University, Easwari Engineering College (Chennai, India)

Aug'19-May'23

Bachelor of Engineering in Computer Science and Engineering, GPA: 3.77/4.0

## SKILLS

- **Programming Skills:** Python, R, SQL, C, C++, Java
- **Data Analysis Tools:** Tableau, Power BI, Google Analytics, Microsoft Excel

## INTERNSHIP

Data Science Intern, LetsGrowMore, India

May'22-Apr'23

- Conducted image processing tasks, transforming grayscale images to RGB using **Python** and **OpenCV**, enhancing data quality by **25%**
- Created an **Exploratory Data Analysis (EDA)** on Anti-Terrorism in International Defense, presenting actionable insights to improve defense strategies
- Developed **Decision Tree Classifiers** for Weather Data Classification, improving predictive accuracy by **15%**
- Engineered a Music Recommendation System, increasing user engagement through personalized recommendations
- Maintained large databases, ensuring accurate data collection, big data analysis, and interpretation using **SQL** and **MS Excel**, reducing errors by **30%**

## ACADEMIC PROJECTS

Mental Health Tracking, Northeastern University

Feb'24

- Integrated wearable technology to monitor physiological indicators in real-time, improving health tracking capabilities
- Utilized **MySQL** and **NoSQL** databases with **Python** for backend processing, ensuring efficient data handling
- Created user-friendly dashboards using **Tableau** to visualize insights and promote proactive health management, increasing user engagement by **35%**

SOLWOE - A Novel Way to Diagnose Depression among Teenagers, Easwari Engineering College

Nov'22

- Conducted user analysis via PHQ-8 questionnaire and **Artificial Intelligence** voice interviews using **Python**, enhancing data accuracy
- Developed a classification application using **Regression** and **SVM** algorithms, achieving a **90%** accuracy rate in diagnosing depression
- Managed a cross-disciplinary team, facilitating regular feedback sessions and improving team productivity
- Published research in [Springer](#), contributing to academic knowledge and industry practices

## OTHER PROJECTS

CRYPATHON - Hackathon

Mar'22

- Designed and implemented a website for farmers, enhancing farming practices and plant growth
- Implemented the **i18n** lightweight translation module with dynamic **JSON** storage to provide content in regional languages, enhancing accessibility and user-friendliness
- Secured first place in the hackathon, demonstrating strong problem-solving and project execution skills

PROJECT DAY 2022 - Conducted by SRM Group of Institutions

Jul'22

- Developed "VHearU," utilizing **TensorFlow** and **PyTorch** for precise gesture detection
- Engineered a user interface with **Python-tkinter**, revolutionizing communication through groundbreaking gesture recognition and text generation
- Showcased innovation, technical proficiency and collaborative teamwork

## EXTRACURRICULAR ACTIVITIES

Student Mentor & Community Leader, Youth Red Cross, Easwari Engineering College

Aug'19- May'23

- Organized and led various community service events like blood donation camps and fundraising events for cancer patient's treatment
- Provided training and support to new volunteers, enhancing their skills in leadership and effective communication
- Initiated a peer-mentoring program to encourage experienced volunteers to guide newcomers, strengthening community bonds and volunteer retention.