

# RAVISANKAR CHENGANNAGARI

+1 201-284-9370 | [rchengannagari@mercy.edu](mailto:rchengannagari@mercy.edu) | [LinkedIn](#) | [GitHub](#) | New Jersey, US | [More Info](#)

## EDUCATION

**Mercy University**, New York, US

*Master of Science in Computer Science*

**Expected December 2025**

Coursework: Machine Learning, Big Data, Computational Data Analysis, Math Methods, Database Management Systems, Python

**Lovely Professional University**, Punjab, India | [LINK](#)

*Bachelor of Technology in Computer Science and Engineering*

**August 2022**

Coursework: Machine Learning, Data Science & Analytics, Big Data Technologies, Deep Learning, Data Visualization, Python, Java

## SKILLS

<b>Languages:</b>	<i>Python, R, Java, JavaScript, SQL</i>
<b>Libraries &amp; Frameworks:</b>	<i>TensorFlow, Keras, PyTorch, Scikit-Learn</i>
<b>Big Data &amp; Tools:</b>	<i>Hadoop, Spark, Power BI</i>
<b>Machine Learning Skills:</b>	<i>Predictive Modeling, Feature Engineering, Hyperparameter Tuning, NLP, Deep Learning (CNNs, RNNs)</i>
<b>Data Science Skills:</b>	<i>Statistics, Probability, Time Series Forecasting, Bayesian Inference, PCA, Hypothesis Testing</i>
<b>Other Skills:</b>	<i>HTML, CSS, Windows, macOS, Linux (Ubuntu)</i>
<b>Certifications:</b>	
• Artificial Intelligence Engineer	<i>Simplilearn</i>   <a href="#">CERTIFICATE</a>
• Machine Learning	<i>Simplilearn</i>   <a href="#">CERTIFICATE</a>
• Data Science with Python	<i>Simplilearn</i>   <a href="#">CERTIFICATE</a>
• Natural Language Processing	<i>Simplilearn</i>   <a href="#">CERTIFICATE</a>
• Competitive Programming	<i>Cipher Schools</i>   <a href="#">CERTIFICATE</a>

## EXPERIENCE

**Mercy University:** *Teaching Assistant* | [LINK](#)

**Feb 2025 – Present**

Dobbs Ferry, New York, United States

- Assist students in Java and Python programming by debugging code, tutoring complex concepts, guiding class projects.
- Grade assignments and provide feedback to enhance learning and academic performance.

**Cognizant Technology Solutions:** *Programmer Analyst* | [LINK](#)

**June 2022 – November 2023**

Bengaluru, Karnataka, India

- Developed and optimized Salesforce applications using Apex Visualforce, Lightning Components, and Salesforce APIs.
- Led the transition from Salesforce Classic to Lightning, improving system usability and performance.
- Integrated Salesforce with external systems via REST, SOAP, APIs, and MuleSoft, ensuring seamless data flow.

**Cognizant Technology Solutions:** *Intern*

**January 2022 – June 2022**

Remote

- Trained in Java, Data Structures, DBMS, SQL, and Salesforce development using Apex and Lightning Components.
- Built reports, dashboards, and workflows in Salesforce, optimizing business processes and improving data retrieval with SOQL/SOSL queries.

## PROJECTS

**Sentiment Analysis Using Machine Learning Algorithms** | [LINK](#)

**December 2024**

- Analyzed 50,000 IMDB movie reviews using machine learning algorithms (Naïve Bayes, SVM, Random Forest, KNN) to classify sentiment as positive or negative.
- Achieved 86% accuracy with Navies Bayes, SVM, and Random Forest, while KNN had 70% accuracy for positive sentiment and 66% for negative sentiment.
- Applied data preprocessing (tokenization, stemming, stopword removal) and dimensionality reduction (PCA, SVD) to improve model performance.

**Air Quality Analysis Using Machine Learning** | [LINK](#)

**September 2024**

- Analyzed 100,000+ air quality records from New York City and global datasets using Python, focusing on NO2 and PM2.5 pollution levels.
- Built predictive models (Random Forest) achieving 85% accuracy in forecasting pollution trends with a Mean Squared Error (MSE) below 0.02.
- Visualized geospatial pollution data using plotly and Folium, identifying pollution hotspots across 50+ global locations.

**Health Data Analysis Using NHANES Dataset** | [LINK](#)

**March 2024**

- Analyzed 10,000+ health records using R (ggplot2, dplyr, mice) to study the relationship between creatinine levels and obesity.
- Built regression models and performed t-tests, revealing a weak negative correlation ( $r = -0.0025$ ,  $p > 0.05$ ) between BMI and creatinine levels.
- Conducted stratified analysis, finding a statistically significant difference ( $p < 0.05$ ) in creatinine levels among middle-aged and older adults.