

# KIRAN SURYA SEKHARA REDDY

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## Education

### University Of Maryland

*Masters in Computer Science - GPA: 3.9*

Sep. 2022 – May 2024

*Baltimore County, Maryland*

### SJB Institute of Technology

*Bachelors of Engineering in Computer Science - GPA: 3.4*

Aug. 2016 – Sept 2020

*Bangalore, India*

## Experience

### University of Maryland Baltimore County

*Graduate Research Assistant for NOAA and NASA Project*

Aug 2023 – Present

*Arbutus, Maryland*

- I led the development of an AI-based predictive air quality model for NASA's and NOAA Project, collaborating with experts to enhance an existing detection model.
- This showcased my proficiency in technology and commitment to environmental monitoring for both Earth and space applications.

### NTT Data

*IT Development Senior Associate*

Feb 2021 – June 2022

*Bangalore, India*

- As a .NET developer, I spearheaded the delivery of top-notch software solutions, demonstrating proficiency in backend development with ASP.NET MVC, Dotnet Core, and WCF, as well as frontend design with Angular, HTML, CSS, and Bootstrap.
- I efficiently managed backend data with SQL Server Management Studio and generated impactful visualization reports using Power BI and Tableau, while also conducting knowledge transfer sessions for junior team members.

### Zensar Technologies

*Project Trainee / Junior Software Engineer*

Nov 2020 – Feb 2021

*Hyderabad, India*

- Completed Dotnet Full Stack Development training with a certified Microsoft trainer, gaining essential skills, and led the Airport Management System project, coordinating tasks and creating an efficient system with HTML/CSS for frontend and ASP.NET MVC with MSSQL for backend.

### DataLore Labs Private Limited

*Machine Learning Intern*

June 2019 – July 2019

*Bangalore, India*

- Acquired foundational knowledge in Machine Learning algorithms and advanced Python programming, working with libraries like Numpy, Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, Matplotlib, and published a paper on predicting car resale value using Linear Regression.

## Projects

### Safeguarding LinkedIn Privacy by Identifying Authentic Companies, and Scraping Resume | *ML, Python*

- Conducted LinkedIn survey to identify factors for company legitimacy, developed ML model for risk prediction, and designed Python scraper for resume extraction guided by privacy policies.

### Early flood detection and disaster victims identification | *ML, Python, C Language, Arduino*

- The project employs IoT for early-stage dam flood detection and utilizes Machine Learning for flood victim identification. Additionally, it integrates IoT with Telegram to receive dam overflow alerts and connects a buzzer for audible alerts to residents nearby.

### Employee attrition prediction using Machine Learning models | *ML, Python*

- We trained our dataset with various models including Decision Tree, SVM, KNN, XG-Boost, and CNN, selecting the best model through evaluation and hyperparameter tuning for predicting employee attrition.

## Publications and Books

- Published 3 papers, including works on 'Flood Monitoring and Victim Identification with IoT and Image Processing', 'Car Resale Value Prediction with Linear Regression', and 'Comparative Analysis of Processing Time, Data Aggregation, Packet Delivery, and Energy Consumption Algorithms'.
- Authored book 'Wireless Sensor Networks and IoT' (ISBN: 978-1-68576-002-1) with InSc Publishing House (IPH).  
Successfully patented and published project 'Machine Learning System for Early Cardiovascular Disease Prediction'.

## Technical Skills

**Programming Languages:** Python, Java, C/C++, C#, HTML/CSS, JavaScript, MySQL, OracleDB

**Developer Tools:** VS Code, Visual Studios, Eclipse, Power BI service and Desktop, Jupiter Notebook, Tableau, SQL Server Management Studios

**Technologies/Frameworks:** Ado.net, Asp.net, Asp.net MVC, Dotnet core, Wcf, Angular