

# ARIVARASAN RAMASAMY

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## Education

### Master of Science in Business Analytics and Information Systems

Expected - Dec'23

*University of South Florida, Tampa, FL*

Relevant Courses      Analytical Methods for Business, Data Mining, Data Science Programming, Big Data, Advanced Database Management Systems, Distributed Information Systems

### Bachelor of Engineering in Electronics and Instrumentation Engineering

Jun'14

*Anna University, India*

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## Technical Skills

Programming Languages	Java, JavaScript, Python, SQL, Shell scripting
Databases	MySQL, Cassandra, MongoDB, AWS
Statistical Tools	Tableau, JupyterLab, PySpark, Tensorflow

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## Academic Projects

### Telecom Churn Analysis - Data Mining Project

- Using Python libraries such as pandas, numpy, and sklearn, performed data processing, and visualization on telecom datasets and also implemented a churn rate prediction model using various Machine Learning algorithms.
- With hyperparameter tuning, cross-validation, and confusion matrix to identify and select the best model.

### Stock Price Prediction - Recurrent Neural Networks

- Conducted data transformations, data cleaning, preprocessing, and data analysis using Python and sklearn libraries on the Yahoo finance dataset.
- Performed RNN, LSTM, Gru, and Conv1D techniques to predict the next closing price of the stock

### Image recognition - Convolutional Neural networks

- Used convolution and pooling techniques to reduce the input training image size
- Created a sequential layer model to train images and applied keras model tuning to improve model accuracy.

### Student Activity Analyzer

- Developed a flask-based application featuring multiple tabs and dashboards to track student activity time and health data. It also provides visualizations and recommendations for effective time management.
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## Work Experience

### Graduate Assistant at University of South Florida

Jan'23 - May'23

- Assisting Professors in data preparation, analysis, and visualization for academic projects
- Skills: Tableau, Excel, problem-solving, data Preprocessing.

### Technical Lead at Google Developer Student Club, University of South Florida

Jan'23 - Present

- Developed e-board projects, and organized and presented workshops and tech sessions for students.
- Skills: Java, JavaScript, HTML/CSS, MySQL, Tableau, ML Algorithms.

### Zoho Corporation, Chennai, India

Oct '15 - Jun'22

### Full Stack Developer

- Independently designed and implemented [RSS Reader](#) for [Zoho Social](#) using Jsoup, handlebars JS, and MySQL.
- Worked as a primary lead for various CRM modules of [Zoho Social](#) and [Zoho Bigin](#).
- Designed and implemented Multi-Currency support in [Zoho Bigin](#) – used Lyte framework to build dashboards and designed APIs from exchangeratesapi.io to process CRM currency data.
- Increased [Team Collaborative tool](#) usage by 50% by revamping the UI/UX design and replacing the codebase with template techniques and optimized business logic.
- Improved the Zoho Bigin web application reliability by refactoring it to microservices architecture.
- Security Coordinator in Zoho Social, responsible for resolving bug bounty issues, attending security events, and discussing improved security practices in development.