



## ARUN GOPAL GOVINDASWAMY

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### EDUCATION

#### MS in Data Science (2020)

DePaul University  
CGPA: 4.0

#### Computer Science Engineering

BS Abdur Rahman University  
CGPA: 3.44

### SKILLS

- Model Building
- Machine Learning
- Data Engineering
- Big Data Frameworks
- Data Visualization
- Exploratory Data Analysis
- Decision Analysis
- Distributed Computing
- Image Processing

### TOOLS

- Oracle • Jenkins • UDeploy
- Tableau • Hadoop • ElasticSearch
- AWS • Hive • MapReduce
- Pig • SAS • Kibana

### PROGRAMMING

- Python • R • SQL • SQLite • JAVA
- Groovy • Shell • MapReduce

### CARRER INTERESTS

- FinTech • Blockchain Technology
- Trading • Computer Vision
- Research • Image Processing

### CERTIFICATIONS

- Business Analytics Using R
- Certified Data Scientist Using R
- Machine Learning 202
- Analytics with R

### PROFESSIONAL EXPERIENCE

#### Medical Informatics Laboratory, DePaul University Research Assistant

Mar 2019—Present

- Working on identification of Gene Function Using Image Analytics.
- Working to identify genes that modulate food related behaviors in nematodes by quantifying behavioral difference in mutant strains.
- Working on developing methods for recording and tracking nematodes over long periods of time, as well as algorithms for extracting and analyzing information from the observational data to empirically quantify nematode behavior.

#### Cognizant Technologies, Chennai, India DevOps Engineer

Dec 2017—Feb 2019

- Built and maintained automated Continuous Integration and Continuous Delivery pipelines by leveraging the CI/CD tools.
- Collaborated with application development team, infrastructure and application support team for application and environment related information.
- Automated scripts and tasks to meet deployment, client and cross-platform user needs.
- Worked closely with software development and testing teams to troubleshoot the issues related to CI/CD pipelines, configuration and deployment issues.
- Built tools and processes to improve build and release management activities and also to improve team productivity.

#### Sitel India Ltd, Chennai, India Customer Service Provider

Aug 2017—Dec 2017

- Used company troubleshooting resolution tree to evaluate technical problems while leveraging personal expertise to find appropriate solutions.
- Provided basic technical support for clients on a wide range of client products.
- Promoted superior experience by addressing customer concerns, demonstrating empathy and resolving problems swiftly.
- Effectively communicated with customers about account changes, new products or services, and potential upgrades.
- Assessed caller accounts to determine benefits, identify service needs and resolve issues.
- Facilitated inter-departmental communication to effectively provide customer support.

### PROJECTS

#### Speech Emotion Recognition using Tamil Language

- Built a machine learning model that could recognize the emotional state of the speaker which can be used in psychological analysis and business development.
- The machine could recognize five emotions namely happy, sad, angry, fear and neutral.
- The model was built using the applications of Hidden Markov Model. Achieved an accuracy of 82.4%.

#### Tracking movement features in *Caenorhabditis elegans*

- Ongoing research to identify genes that modulate food related behaviors in nematodes by quantifying behavioral difference in mutant strains.
- Working on tracking nematodes over long periods of time, as well as algorithms for extracting and analyzing information from the observational data to empirically quantify nematode behavior.

### LEADERSHIP AND EXTRA CURRICULAR ACTIVITIES

#### Joint Secretary

July 2015—May 2017

- Played a vital role as channel between students and the faculty, mentored fellow and junior students with curricular and co-curricular activities, organized several technical, non-technical and cultural events. Motivated and lead a team of other students and volunteers.
- Fostered an environment of growth, leadership, learning and support within the department

#### Vice-Captain

July 2014 – May 2017

- Represented and Vice-Captained the University's Cricket Team to various National level and Inter-University level championships and won many accolades.
- Coached and mentored junior players on various occasions.