Vignesh Muthukumar

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LinkedIn   Github   Google Scholar

EDUCATION	**SSN College of Enginnering, Anna University**	**CGPA: 8.47/10**
	B.Tech, Information Technology	June 2019
	Maharishi Vidya Mandir Senior Secondary School	**Percentage : 94.8%**
	Class XII, All India Senior School Certificate Examination	March 2015
	The PSBB Millennium School	**CGPA : 10/10**
	Class X,Secondary School Examination (CBSE)	March 2013

TECHNICAL SKILLS

Languages	Java, C, C++, Python, JavaScript
Web Technologies	HTML5, CSS3, JSON, VueJs
Frameworks	SpringBoot, Vert.x, Java Spring, Numpy, Scikit-Learn, Pandas
Databases	MySQL, MongoDB
Tools and Platform	Apache Kafka, Jupyter Notebooks, Github, Bitbucket, Arduino, ESP8266

EXPERIENCE

Ninjacart (63Ideas Infolabs Pvt Ltd) — June 2019 - Present
Software Engineer — Bangalore, India

- Designed and developed features for logistics fleet and driver management operations including Onboarding, Verification, Facial Attendance, Communication, Ticketing and Tariff Calculation.
- Developed a complete flow for the *Last Mile Delivery* which improved the user satisfaction amongst customers and increased the visibility of performance metrics for drivers.
- Primary developer for *Real-time Live Location Tracking* feature that monitors more than 10000 fleets moving each day which reduced the transit latency by 40% and increased the on-time delivery from 60% to 90%.
- Developed a micro service for *Centralized Configuration Management* to facilitate the deployment and scaling process among developers.
- Primary developer of the dashboard for *Fleet Monitoring Service* using VueJs.

PROJECTS

Deep Learning based Dropout Prediction in MOOCs over weeks   Nov 2018 - Apr 2019

- Designed a system that predicts the student dropout rate during successive weeks of a course and provides them with targeted interventions and improvements.
- Implemented using *MLF Neural Network* and evaluated predictions using metrics like *ROC*, *RMSE*, *Precision and Recall*.

Effective Irrigation Management using Cyber Physical System (CPS)   Feb 2018

- Created a prototype for optimizing irrigation management using *IoT* and supervised ML algorithms.

Employee Burnout Predictor   Dec 2020

- Created an ML web application to predict employee burnout rate using DNN, Flask & HTML.

Sports Analysis and Performance Prediction   Summer 2018

- Independent project to provide data analysis for the *IPL tournament* using Matplotlib and Pandas.

PUBLICATIONS

- Muthukumar Vignesh and N. Bhalaji, "MOOCVERSITY-Deep Learning Based Dropout Prediction in MOOCs over Weeks", Journal of Soft Computing Paradigm (JSCP), vol. 2, no. 03, pp. 140-152, 2020.

COURSEWORK

- **Undergraduate:** Programming and Data Structures, Design and Analysis of Algorithms, Database Management Systems, Operating Systems, Computer Networks, Artificial Intelligence, Web Technology and Compiler Design.
- **Online Courses:** Machine Learning, Neural Networks and Deep Learning by **Coursera**.

AWARDS

- Ranked **1st in India**, 34th in the world out of 5000 teams at **IEEE-Xtreme - 2018**.
- Finished **7th** in the **ACM ICPC India Chennai Provincial Contest - 2018**.
- Medal of Honour for securing a rank among **top 5%** of the department for the year 2015-2016.

ACTIVITIES

- Organizer of National level technical event on **Data Structures and Algorithms** which involved 75+ teams from 15 institutions all over India.