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Employment

Senior Software Engineer **Arcesium India (D.E. Shaw & Co.)** **March 2020 - Current**

As a part of the Investors Relations team in Arcesium I am working as a backend developer. Here I am using Java as a primary language having integration of Struts and Spring framework.
Worked on LLD and HLD part of various features of the product apart from development and code review items.

Senior AI Engineer **Prime Focus Tech. Ltd.** **Jan 2019 - May 2019**

Worked for BARC (Broadcast Audience Research Council) to develop a Platform to monitor Commercial, Promo, Program, Montage across 30 channels using Video Fingerprinting. This Automation helps to reduce the manual process of monitoring each channel by 50 percent.
My Responsibility was to build the AI Backend Engine and DB setup to predict the result.

Senior System Engineer **Infosys Tech. Ltd.** **Dec 2015 - Jan 2019**

Worked for several clients from the Financial and Aerospace domain. I have worked on automating the process of deployment in IST and UAT Environment which reduce the manual effort by 75 percent.

Language And Technologies

- **Programming Languages -** Python, Java
- **Operating System -** Linux, Windows
- **Frameworks and Libraries** - Struts, Spring, Mybatis.
- **Technical Skills** - Data Structure and Algorithms, Machine Learning.

Education

Gwalior, India **Indian Institute of Information Technology** **July 2010 - June 2015**

- Integrated PG (B.Tech. + M.Tech) in Information Technology. CGPA: 7.0/10
- Main coursework: Data Structures, Design and Analysis of Algorithms, Computer Architecture, Artificial Intelligence, Database Systems, Operating Systems, Software Engineering.

M.Tech Thesis and Projects

- Vehicle Detection and Tracking using Neural Network. Used Single shot multibox detector to find a car and track it in a video.
- Semantic Segmentation for Road Detection. Used U-Net Architecture to find the road and non-road part of an image using semantic segmentation. This is useful for Autonomous vehicles for path planning.
- Disease Spread and Outbreak detection using social network analysis. This Project was part of my M.tech Thesis. I have used Twitter data for disease spread analysis.
- Machine Learning from Disaster (Kaggle competition). From the given data we have to predict which people have survived the disaster.
- Traffic Sign Classifier - Using Convolutional neural networks to classify traffic signs. Specifically, I have trained a model to classify traffic signs from the German Traffic Sign Dataset.

Certifications

- Udacity - Self Driving Car Nanodegree Certification.
- CodeChef - Data Structure and Algorithm certified - Foundation Level
- Medium- Content Writer. I have an interest in writing technical articles related to Machine Learning.
- Coursera - Machine Learning Certification.
- Coursera - Neural Network and Deep Learning Certification.