

# VIGNESH VISWANATHAN

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## EDUCATION

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MS in Computer Science, **Eric Johnsson School of Engineering and Computer Science** Present - 2021

B.E in Electronics and Telecommunications, **Sardar Patel Institute of Technology** Mumbai, 2015-2019

## WORK EXPERIENCE

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**Bholanath Precision Engineering Pvt. Ltd.** Automation Trainee

- Automated tasks such as product registration and database updating for fault reporting and tracking and saved \$10000 per year due to manual tracking and averted 20+ hours of manual effort on a weekly basis.
- Updated company's data warehousing techniques such as data recall and segmentation, increasing usability.

**Exsilio Tech** Data Engineer & Head of Software Electronics

- Established the independent start-up organization along with two batch mates.
- Worked as engineering control system developer and managed the implementation of the automation subsystem using machine learning and deep learning using comparison of predictive models like train and test models and implemented the optimized model using Python using open source libraries like pandas, keras and Tensorflow.

**Internshala** Database Admin

- Managed the website and optimized the recommendation engine increasing sales by 14%. Utilized Web scraping to extract and compare competitor data. Staged Web Scraping to extract data for analyzing demands and KPI's.
- Updated the student database for subscription of services using MySQL and Python. Improved the data mining process, resulting in a 25% decrease to infer sales insights for developing marketing strategies.

## SKILLS

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**Development Languages:** Java, C, C++, Python, Embedded C, R, SQL, Advanced Excel, C#, NoSQL, Flask

**Skills:** HTML, JavaScript, AngularJs, CSS, Swift for iOS App Development, React, Ruby on Rails, Git, AWS

## ACADEMIC PROJECTS

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**Fake Review Classifier and Identification on Amazon**

- Cleansed the dataset obtained using AWS Glue and utilized Standard core NLP to assign sentiment value for each summary feature of each product in dataset. Designed model to use Gaussian Model and Silhouette Width to review the consistency in the clusters of fake and authentic reviews using Spark, Kafka and Python.

**Classifying Song Genres from Audio Data**

- Used pandas and seaborn to aggregate data and visualization to classify given track into either Hip-Hop or Rock. Implemented PCA, decision tree and logistic regression to train model based on energy, acousticness, tempo, etc.

**Autonomous Exhaust Based Braking System(AEBS)** Product Patent Holder

- Garnered the predictive maintenance of all the subsystems of the AEBS using Deep Learning and Computational Intelligence. Accuracy of 93% achieved for classifying road signs and vehicles using a database of 50K images.

**Head of Electronics at SPRAC, Robotic Committee at SPIT**

- Neural network and algorithm developer with a specialization in image processing. Rendered an algorithm coupled with Neural Network training to identify and adjust the Region of Interest(ROI) of a captured video frame.

## CO-CURRICULAR

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**Teaching Assistant in Big Data and Analytics at The University of Texas at Dallas.**

**Editor of Columns at Spark, SPIT's Official Newsletter.**