

H HARSHAVARDHAN

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PROFESSIONAL SUMMARY

An Engineering Graduate seeking to delve into the world of engineering with the Knowledge of powerful computer-based tools and to evolve into a capable professional by being associated with a company that will challenge me to push my boundaries and allow me to use my education and skills in a way that is mutually beneficial for my employer and me to achieve sustainable growth.

KEY TECHNOLOGICAL CERTIFICATIONS AND ACCOMPLISHMENTS

- **MICROSOFT: AZURE DATA ENGINEER ASSOCIATE:** *Feb 2024*
 - Design and Implement Data Storage.
 - Develop Data Processing
 - Secure, Monitor and Optimize Data Storage and Data Processing.

TECHNICAL SKILLS

Data Eco System	: Microsoft Azure, AWS, Databricks
Databases	: MS SQL Server, MySQL
Languages	: Scala, Python, SQL, C++
BI & Visualization Tools	: Power BI, Tableau
Libraries	: Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, PySpark, NLTK, Plotly, Altair, BeautifulSoup, Prophet
Operating Systems	: Linux and Windows
Methodologies	: Agile

PROFESSIONAL INTERNSHIP EXPERIENCE

Arihant Duraplast, Chennai *June 2019*

- Gained technical knowledge in manufacturing various products using injection moulding.

TV Sundaram Iyengar & Sons Ltd, Trichy *June 2019*

- Learned about assembling various parts of trucks, LCVs, and service processes of vehicles.

RR IT Solutions, Chennai *Aug 2024 – Feb 2025*

- Developed technical expertise in Data Science with Python.
- Gained practical exposure to machine learning techniques, including linear regression, logistic regression, random forest, and k-means clustering.
- **Model Evaluation:** Conducted accuracy assessments and other evaluation techniques to ensure performance.
- **Project:** Led a project utilizing multivariate linear regression to predict final exam marks based on Continuous Internal Assessment (CIA) scores.
- **Model Deployment:** Trained and saved the model using Pickle for future predictions.

SELF TECHNICAL INITIATIVES

- **AdventureWorks Analysis – Microsoft Azure Data Engineering:** [GitHub Link](#)
This project sets up an end-to-end data pipeline on Azure using AdventureWorks data, ingesting it into Azure Data Lake, transforming with Azure Data Factory and Databricks, analysing with Azure Synapse, and visualizing insights in Power BI.
- **YouTube Analysis – AWS Data Engineering:** [GitHub Link](#)
This project processes YouTube data on AWS using Apache Spark on AWS EMR, automating workflows with AWS Lambda and monitoring with AWS CloudWatch. The processed data is stored in AWS Glue and queried with Athena, then visualized in Power BI.
- **Amazon Fine Foods, Sentiment Analysis – Data Science:** [GitHub Link](#)
This project performs sentiment analysis on Amazon product reviews using VADER (traditional NLP) and RoBERTa (transformer-based), comparing both methods to extract insights on user behaviour and sentiment trends.
- **Ecommerce Analysis – Exploratory Data Analysis:** [GitHub Link](#)
This project analyses Amazon sales data using Python and Pandas to uncover trends in revenue, customer behaviour, product performance, and shipping, providing insights into sales patterns and optimizing business strategies.
- **TN Assembly Election Results (1971 - 2016) - Python Web Scraping:** [GitHub Link](#)
This project scrapes and cleans Tamil Nadu Assembly election data from Wikipedia and Elections India, structuring it into Excel sheets for further analysis with a focus on leadership, alliances, and constituency-level results.
- **Stock Market NSE Dashboard – Tableau:** [GitHub Link](#)
This project cleans stock market data for the top 6 NSE companies, adding key metrics like moving averages, price, and volume changes, and uses Tableau to create an interactive dashboard for visualizing trends and fluctuations.

SEMESTER PROJECTS

- Detection of cracks using Ultrasonic sound waves in Railway Tracks.
- Micro-structural Characterization and Mechanical Properties of Friction Stir welded Aluminum alloy to copper.
- Machine Learning Framework for Fault Detection in Automobile Disc Brake System.
In Collaboration, with a Team of 3(2 Mechanical and 1 Computer Science Students).

EXTRACURRICULAR ACTIVITIES

- **Chennai International Youth Fest 2.0** 2018
Event coordinator
- **Vibrance, VIT University Chennai** 2019
Overall Coordinator for Food Stall Committee

EDUCATION

Institute/College	Duration	Percentage Obtained
Vellore Institute of Technology, <i>Chennai</i>	2016-2020	79.8%
Maharishi International Residential School, <i>Chennai</i>	2015-2016	87.6%
Chettinad Vidya Mandir, <i>Karur</i>	2013-2014	86%