

Adarsh Challa

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Data Science Intern with technical proficiencies in SQL, Tableau, Python and experience in various Data Visualization and Machine Learning projects.

EDUCATION

JNTUH College of Engineering, Hyderabad, India	Aug 2015-Nov 2020
Master of Technology in Manufacturing Systems	GPA: 8.53/10
Coursework: Simulation Modelling and Analysis, Optimization Techniques and Applications	
JNTUH College of Engineering, Hyderabad, India	Aug 2015-Nov 2019
Bachelor of Technology in Mechanical Engineering	GPA: 8.23/10
Coursework: Computational Mathematics, Mathematics -I, II, III	

TECHNICAL SKILLS

Languages: Python (Pandas, NumPy, StatsModels, Matplotlib), SQL, MATLAB

Tools: Tableau, MS Excel (Solver @RISK), SolidWorks, AutoCAD, MATLAB, CATIA V5, Minitab 19

IDEs/Database: Jupyter Notebook, MySQL, Microsoft SQL Server, Alteryx Designer

Algorithms/Technologies: Generalized Linear, Tree based methods, Distance Based Models, SVM, Bayesian techniques, Gradient Boosting, Hierarchical Clustering, Association Rules, Apriori, CNN

PROFESSIONAL INTERNSHIPS

Data Science Intern | Innomatics Research Labs, Hyderabad, India | September 2020 – till date

Project 1 : [Bike Sharing Dataset](#) | [Python](#)

- Feature Engineered more than **17 thousand Bike sharing datapoints** to provide an insightful dashboard regarding different factors that could affect the count of ride in a particular hour.
- Predicted the no. of rentals that are likely to occur by using Lasso/Ridge, Gradient Boosting, Random **Forests** algorithms and proposed business insights that would affect the number of rentals and increase revenue. | **R2:** 93.9, **MSE:** 2019.54, **RMSE:** 44.93, **CV score** - 0.936

Project 2: [Car Dekho Dataset](#) | [Python](#) | [Excel](#)

- **Data Mining of 12973 second-hand car's** information using BeautifulSoup Library mined from **CarDekho.com**
- Visualized Valuable insights most popular color, brands, price range of various variants. Data can also be used to predict expected price while selling the car(model building).

ACADEMIC PROJECTS/INTERNSHIPS

Investigation of Dimensional Accuracy and Surface quality in fused deposition modelling | Master's Thesis | April 2019 Nov 2020 | Minitab | Excel | Slicer

- The 3d printed parts are optimized to 98% efficiency using Extrusion Temperature, Extrusion Multiplier, and Layer thickness as input parameters for best dimensional accuracy and least surface roughness.

Project Research Intern | Indian Institute of Technology, Hyderabad, India Nov 2018- April 2019

Design, Development and Analysis of Passive Dynamic Walker (PDW) | Bachelor's Thesis | MATLAB | SLICER

- PDW is a self-locomoting device which uses its own potential energy to travel forward.
- Data about 2000 points from different sources is collected and consolidated to design the most efficient walker which can be used for the human-like motion of robots.

Internship Trainee | MSME Tool Room – India, Hyderabad, India | May 2018 – June 2018

- Worked as an industrial trainee on different machine tools and machining processes.
- Analyzed business aspects of the manufacturing processes for cost and time optimization.

Internship Trainee | Bharat Heavy Electrical Limited – India, Hyderabad, India | May 2017 – June 2017

- Monitored the quality of the turbine blades manufactured using PDSA and DMAIC approaches to study the process with respect to the hypothesis, experimentation and evaluation for improvement.

CERTIFICATIONS

- **Competent Leader – Toastmasters International**
- **SQL – MySQL for Data Analytics and Business Intelligence**
- **Excel Essential Training – LinkedIn Learning**

VOLUNTEER ACTIVITIES

- VP-Education of Vision Toastmasters - Hyderabad which is an 11-year-old public speaking club. Club was awarded President Distinguished Club under our EC.
- Shouldered the responsibility of Co-organizer for the National Technical Symposium “Connaissance-2019 JNTU-Hyderabad” with 1000+ participants from all over the country.