

## THARUN PONNAGANTI

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Career Objective: To secure a position in the field of Data Science where I can efficiently contribute my skills and abilities for the growth of the organization and build my professional career.

GitHub Link: <https://github.com/TharunPonnaganti>

Kaggle Link: <https://www.kaggle.com/tharunponnaganti>

### EDUCATIONAL QUALIFICATIONS

Data Science and Engineering PGP in Great Lakes (E-Learning) 82%

Dec 2020

Computer Science Engineering, ANITS [Affiliated to Andhra University] 6.4/10.0

May 2017

### PROFESSIONAL SUMMARY

Finance and Business Analytics, MTE - Intern/Trainee

Nov 2020

Worked on Live Project "Compare Profitability and Risk of Different Investments using Pandas".

- Analysed the Financial statements of Amazon, Facebook using benchmark data S&P 500.

Operations Manager, P.K.R Electrical and Civil

Aug2017 –19

- Built a network of clients where the company can easily negotiate and purchase materials with 15-45%off (based on type of materials).
- Supervised the receiving crew of 5 employees of highly fragile yet core elements of the project such as transformers and high voltage heavy cables.
- Worked on the negotiation on building a custom-made transformer and underground motor pumps with 30% discount.
- Managed to work both remotely and onsite according to the situation across the state.

VPT (VISAKHAPATNAM PORT TRUST)

June 2016

- Learned about Information security, Database management and Data manipulation, Information systems security.

### KEY SKILLS

- Machine Learning (Supervised and Unsupervised Learning), Statistical Analysis
- Programming languages: Python- NumPy, Pandas, Matplotlib, Seaborn, SciPy, sklearn, R programming.
- Databases: MYSQL
- Visualization Tool: Tableau, Power BI Desktop

### ACADEMIC PROJECTS

- Project 1: AIRBNB

This project analyzes Airbnb listings in the city of New York to better understand how different attributes such as bedrooms, location, and house type amongst others can be used to accurately predict the price of listing that is optimal in terms of the host's profitability yet affordable to their guests. This model is intended to be helpful to the internal pricing tools that Airbnb provides to its hosts

Resources Used: Python packages: pandas, numpy, scipy, sklearn, matplotlib, seaborn, regression techniques.

Link: <https://www.kaggle.com/tharunponnaganti/notebooks>

Model evaluation Scores:

Linear Regression:

R<sup>2</sup> score for train: 0.6369799616222565

R<sup>2</sup> score for test: 0.635412119637978

Gradient Boosting Regression:

R<sup>2</sup> score for train: 0.7548

R<sup>2</sup> score for test: 0.7272

- Project 2: IPL – Match – Bidding

Designed an app which displays the winner at the end of the match and update the team standings in the tournament and bidder points table.

Resources Used: MySQL- Aggregate functions, joins.

Link: <https://github.com/TharunPonnaganti/IPL-Match-Bidding-App>

- Project 3: Tumour-size-prediction

Designed a machine learning model which predicts the melanoma tumour size based on various attributes. A special problem as we have lesser rows in Train data compared to test data.

Resources Used: Python packages: pandas, numpy, scipy, sklearn, matplotlib, seaborn, regression techniques

Model Evaluation: I have used Root Mean Squared Error (RMSE) as evaluation metric and here is the score:

Standard Scaler - RMSE score: 0.1060

Link: <https://github.com/TharunPonnaganti/Tumor-size-prediction>

#### ACHIEVEMENTS / PARTICIPATIONS

- Achieved Golden Badge in MySQL from Hacker Rank.
- Analysing Company's Performance Using Ratios Coursera.
- Power BI Guided Project Coursera.
- Investment Risk Management Guided Project Coursera.
- Achieved RMSE validation score of 0.806 in Kaggle competition.
- Completed ANZ internship on Predictive analysis and EDA in Forage (Formerly Inside Sherpa).
- Built a robot based on Gestured Robotics.
- Ethical Hacking held in IIT-Powai.
- Firefox OS app dev held in JNTU-K.