

Raja Chowdary Polepalli

Hardworking and Conscientious
Professional

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Professional Summary

Motivated, teamwork-oriented and conscientious professional with 3+ years of experience in Contracts management, Data analysis and reporting. IBM certified Python Data Science professional excels in **Python, Exploratory Data Analysis and Machine Learning**. Received a **Copyright Certificate** from Government of India for inventing a new **shortcut formula** in Mathematics. Skilled in **Mathematical research, Statistics, problem solving and creative thinking**. Aspiring for a **career change** to the field of **Data Science and Analytics** while being innovative, resourceful and flexible.

Skill Highlights

1. Technical Skills

- Data Analysis
- Data Wrangling
- Data Modelling
- Statistics and Probability
- Data Visualization
- Machine Learning
- Regression
- Programming
- Mathematical Research

2. Tools and Languages

- Python
- Numpy
- Pandas
- Matplotlib
- Seaborn
- Scikit-Learn
- Ocatve
- PostgreSQL
- MySQL
- MS-Excel
- Tableau Desktop
- PyCharm
- Spyder
- Jupyter Notebook
- Google Colab
- Latex

Experience

1. Hindustan Construction Company, Mumbai

July 2019-March 2020

Senior Contracts Engineer

- Documentation and day-to-day contractual letter drafting.
- Identifying patterns and trends in data sets.
- Timely maintenance of the data and necessary documents using a document management system(DMS) software.
- Collecting data from all the departments for Statistical Data Analysis and Data Visualization using Excel and Tableau to prepare Monthly Progress Reports(MPRs).
- Designing reports and dashboards to show statistics and other information about project completion status to client.
- Analyzing results while comparing with backup calculations required for the project scheduling using Excel and linear regression algorithm.
- Working alongside teams within the project to establish business needs.
- Analyzing data and perform specific data queries using PostgreSQL in coordination with planning and contracts dept. at Head Office(HO).
- Rainfall depth prediction using linear regression algorithm required for Extension of Time(EOT) submission.
- Forecasting the price of an item in the BOQ using Multiple Linear Regression(MLR) model.

2. JM Mhatre Infra Private Ltd, Navi Mumbai

April 2017-June 2019

Contracts Engineer

- Maintaining data and necessary documents using a document management system(DMS) software.
- Documentation and day-to-day contractual letter drafting.
- Extension of Time(EOT) Analysis-Hindrances and Delay Analysis.
- Data Analysis using Excel and Tableau Desktop for generating statistics reports of the projects such as dashboards etc.
- Collecting and interpreting data obtained from all the resources.

3. JM Mhatre Infra Private Ltd, Navi Mumbai

March 2014-April 2015

Junior Engineer

- Preparation of Bar Bending Schedule(BBS).
- Site Execution.
- Analyzing GFC drawings.

Mathematical Research

- Derived a new explicit formula for finding out the double root of a specific cubic equation of single variable and received the Copyright certificate(Reg.No.:**L71550/2017**) from Government of India in the year 2017.

$$\alpha = \pm \sqrt{\frac{b^2 - 3ac}{c^2 - 3bd}} \begin{cases} + & \text{if } 9ad > bc \\ - & \text{if } 9ad < bc \end{cases}$$

- Upon generalizing the above formula to a finite degree n, published a research paper(Ref.No.:**IJMA-10138**) in the International Journal of Mathematical Archive(IJMA), Vol-11, Issue-2 in the year 2020.

$$\alpha = \frac{2}{n-2} \left(\frac{a_1 a_{n-2} - \binom{n}{2} a_0 a_{n-1}}{n^2 a_0 a_n - a_1 a_{n-1}} \right) \forall n > 2$$

Analytical Projects

1. New York's 311 Complaint System(Capstone Project)

The dataset used in the project was taken from the Department of Housing Preservation and Development of New York City. The objective of the project is to analyze historical data to help the State of New York efficiently handle complaints related to the housing and buildings that they receive through their 311 system.

Tools and Technologies used

- Exploratory Data Analysis
- Linear Regression
- Python:Numpy, Pandas,Matplotlib,Seaborn,Scikit-Learn
- IBM Watson Studio

2. Ham/Spam Detection

The dataset used in the project was taken from the UCI datasets.The objective of the project is to train a machine learning model to learn to discriminate between ham/spam automatically.

Tools and Technologies used

- Exploratory Data Analysis
- Naive Bayes Classifier
- Python:NLTK,Numpy, Pandas,Matplotlib,Seaborn,Scikit-Learn
- PyCharm

3. Loan Default Prediction

The dataset used in the project was taken from the LendingClub.The objective of the project is to build a classifier that will predict whether or not a particular borrower paid back their loan in full.

Tools and Technologies used

- Exploratory Data Analysis
- LogisticRegression
- Python:Numpy, Pandas,Matplotlib,Seaborn,Scikit-Learn
- PyCharm

4. Customer's Experience Prediction

The objective of the project is to build a machine learning model that will predict customer's experience on mobile app and website.

Tools and Technologies used

- Exploratory Data Analysis
- Linear Regression
- Python:Numpy, Pandas,Matplotlib,Seaborn,Scikit-Learn
- PyCharm

Professional Certifications

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| DS0720EN:Data Science and Machine Learning Capstone Project(IBM) | 2021 |
| PY0101EN:Python Basics for Data Science(IBM) | 2020 |
| DA0101EN:Analyzing Data with Python(IBM) | 2020 |
| DV0101EN:Visualization Data with Python(IBM) | 2020 |
| ML0101EN:Machine Learning with Python(IBM) | 2020 |

Education

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| 1. National Institute of Construction Management and Research,Goa | 2015-2017 |
| • PGP-Advanced Construction Management. | Overall CGPA:7.1 |
| 2. GITAM University,Hyderabad | 2010-2014 |
| • Bachelor of Technology,Civil Engineering | Overall CGPA:6.06 |
| 3. SASI JuniorCollege,Velivennu | 2008-2010 |
| • High School Equivalent/Intermediate | Overall Grade:87.4% |
| 4. Bharatiya Vidhya Bhavans,Tadepalligudem | 2007-2008 |
| • School Certificate/10th CBSE | Overall Grade:76.2% |