

Pankaj

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Current Location: Chennai, Tamil Nadu, India

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Graduate with B. Tech and M. Tech in Mathematics and Computing. Experience of a year as a software engineer. Noted for skills in meeting deadlines and effective problem-solving.

EDUCATION

Indian Institute of Technology (IIT), Delhi

July 2013 – June 2019

B.Tech +M.Tech in Mathematics and Computing(Dual)

EXPERIENCE

Virtusa Cooperation

July 2019 – Present

Software Engineer

Tools/Languages : Python, Google Cloud Platform, Terraform

- **Worked on building ML models using Python, improving its accuracy and exposing the models on App Engine and AI/ML Platform on Google Cloud Platform.**
- **Designed and worked on data lake architecture and different Data lake workflows related to Data transfer.**
- **Worked on Real time, Batch Data transfer and brought up Google Cloud Platform resources through terraform and made it more configurable and automated.**

PROJECTS

Classification using Sentiment analysis (Python)

- **Implemented the bag of words algorithm to classify the sentiment of text as positive/negative/neutral and incorporated negation handling to improve accuracy in Python.**

Finite Element Approximation, M.Tech Thesis (Matlab)

Jan 2018 - Dec 2019

- **Studied Finite Element Methods to approximate the solution to partial differential equations.**
- **Designed and Implemented a Finite Element Method in order to approximate the solution to 1 D and 2 D fractional Poisson's PDE.**

Database Management Systems (SQL)

- **Constructed 20+ complex SQL queries to retrieve information from large database of about 568 IPL cricket matches played in the duration from 2008-2016.**
- **Extracted results like batting average of all players across all seasons, bowler who has the best average overall, venue where the maximum number of wide have been given, names of all players and their runs scored, Player names who scored a century but their teams lost the match etc.**

Credit Risk Detection (R)

- **Dimensionality reduction using PCA, classification using Random Forest algorithm and validation through various statistical tests like ANOVA, chi-squared test in R.**

Other Projects

- **Implemented the task manager using Graphical User Interface and used the file handling in Python.**
- **Implemented solution to the travelling salesman problem using both greedy algorithm and dynamic programming approach.**

RELEVANT COURSES

Data Structures and Algorithms, Analysis and Design of Algorithms, Database Management Systems, Probability and Stochastic Processes, Introduction to Statistics, Optimization Methods, Introduction to Machine learning, Google Cloud Essentials (Linux Academy).

TECHNICAL SKILLS

Programming Languages - **Python (numpy, pandas, sklearn, matplotlib), C++(basics), Terraform, R**

Database Management - **MySQL**

Other tools – **Matlab , Jupyter notebook, Google Cloud Platform**

INTERESTS

Cricket, Football and reading newspaper.