

## PIYUSH GUPTA

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**Interpersonal skills | Decision making | Problem solving | Leadership | Teamwork | Organizational skills**

### EDUCATION

<b>Pace University – Seidenberg School of Computer Science and Information System, New York</b>	Expected 2024
Data Science, Master of Science in Data Science (STEM)	Current GPA: 4.0/4.0
Relevant Coursework: Database Management Systems   Scalable Databases   Introduction to Data Science	
<b>National Institute of Construction Management and Research, Pune, India</b>	March 2017
Post Graduate Program - Advanced Construction Management	GPA: 3.70/4
Relevant Coursework: Strategic Management   Analytical Mathematics	
<b>Jaypee University of Engineering and Technology, Guna, India</b>	June 2015
Bachelor of Technology – Civil Engineering	GPA: 3.79/4

### TECHNICAL SKILLS

**Programming Languages:** Python, R, SQL (Postgres, Docker)

**Software/Tools:** PowerBI, Tableau, Jupyter notebook, Anaconda, Oracle, Databricks, Colab, Visual Code Studio, MSP, Auto-Cad, Primavera

**Microsoft office:** Advanced Excel, Word, Powerpoint

### ACADEMIC PROJECTS

**Youtube Sentiment Analysis** February 2023

- The baseline Youtube data API was made by extracting 1200 comments & 200 videos from multiple youtube channels and manually classifying them into positive, negative and neutral comments.
- The models implemented in sentiment analysis are Vader, Afinn which had operated with an accuracy of 78.79% & 70.88% respectively.
- The algorithms executed for prediction purpose are LSTM, Polynomial & Linear regression. The acquired results state that Vader outperforms Afinn by RMSE of 0.0477 in LSTM.

**HR Analytics Attrition** October 2022

- Identified various parameters that impact attrition in a firm by conducting exploratory data analysis on data derived from Human resources department that consisted of 25 attributes and 4410 entries.
- Performed 10+ data visualizations on the dataset, detected outliers and made observations such as, there exists 7 factors associated with attrition like marital status, age, job happiness, total years worked and so on.
- 17% of the population (1019 employees) or 174 people consider work-life balance good at the firm.

**Classification of Pneumonia** December 2022

- An automation of chest x-rays to discern whether a patient is infected with pneumonia or not by classifying white spots (infiltrates) in lungs with medical imaging dataset of nearly 32,717 patients.
- The libraries applied are NumPy, keras, TensorFlow, CV2 & matplotlib.
- Hyperparameters involved are verbose, batch size, patience & learning rate of the values 1, 32, 2 & 0.000001 respectively.
- Upon training the model with machine learning learners, obtained an accuracy of 75%

**ICC Men's T20 World cup management** November 2022

- An SQL project consisting of 8 entities namely, Team, Player, Batsmen, Bowler, Umpire, Captain, Matches & Coach; established relationships among entities.
- Executed DDL, DML commands, created 9 tables & performed over 8 distinct queries such as Joins, Aggregate operations, clauses, procedures, functions, indexes, view & triggers.

### WORK EXPERIENCE

<b>Ernst and Young LLP</b>	Madhya Pradesh, India
Infrastructure expert	November 2021 -
• Produced detailed project reports for APMC market infrastructure development and implementation.	
• Assisted the project team in preparation of financial projection & tasks pertaining to modernization and reidentification of APMC markets.	

- Bid/Tender management including preparation of bidding documents, corrigendum, information to bidders, response to bid queries and evaluation of tenders.
- Depicted proficiency in cost estimation, time & crisis management, database management, data collection, infrastructure As-is report and capacity valuation.

**Dilip Buildcon Limited**

Senior Manager (Billing & Planning)

Madhya Pradesh, India  
October 2018 – November 2021

- Reviewed, generated and shared daily & monthly progress reports to management and clients.
- Employed standardization of project (New NH-16 from km 62.000 to km136.500) information collection for analytics: development of reporting formats, templates & trackers for billing.
- In charge for handling data management & control, data screening, management and data visualization & planning through projects of budget 1522 crores.
- Advised alternative ways to expedite project (Construction of road tunnel, viaduct & bypass, budget of 1004 crores) progress and accordingly revise the schedule.

**Ashoka Buildcon Limited**

Management engineer (Operations & Planning)

Chandigarh, India  
May 2017 – October 2018

- Supervised as site engineer of all structures including Flyover, Minor bridge, VUP, PUP, Box culvert, pipe culvert and drains.
- Administered on the project of 4/6 lane of NH-95 in the state of Punjab (budget of 1600 crores).
- Accomplished Highway constructions i.e., Earthwork, CTSB, WMM, DBM, & BC. Checked quality procedures followed at site.
- Supported in development & implementation of web-enabled management reporting tool, and advancement of integration process.

**LEADERSHIP EXPERIENCE**

**Senior Manager**

October 2018 – November 2021

- Responsible for data management, visualizations, planning, screening and control pertaining to the projects held during the tenure.
- Recommended on substitute approaches to speed the NH-75E project, progress, and correspondingly amend the timeline.
- Applied uniformity of project documentation acquisition for analytics: design of investigating standards, themes and bill monitors.

**Operations Engineer**

May 2017 – October 2018

- Verified the lean principles implemented at the worksite versus regulatory requirements.
- Tested program progress while adhering to the agreed-upon project timeline (baseline).
- Determined hazards & minimized major/minor internal near miss injuries. Discovered system shortcomings in regard to traditional procedures & compliance requirements.