Bhavneet Bali

Bachelor of Technology
Mechanical Engineering
Veermata Jijabai Technological Institute, Mumbai

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EDUCATION

- **Veermata Jijabai Technological Institute** — *2023*
  Bachelor of Technology, Mechanical Engineering — CGPA: 6.89
- **Marotrao Mudhe Jr. College, Nagpur** — *2019*
  Higher Secondary School Certificate, Maharashtra — Percentage: 87%
- **Bhavan's B.P. Vidya Mandir, Ashti, Nagpur** — *2017*
  Secondary School Certificate, Maharashtra — Percentage: 97%

EXPERIENCE

- **PricewaterhouseCoopers (PwC)** — *05/2022-07-2022*
  Financial Services Tech Consultant — Mumbai
  - Built Android App for an e-commerce platform demonstrating the use of headless CMS
  - Engineered the UI for a bank login website with Flutter Dart

PERSONAL PROJECTS

- **Flow Field Reconstruction Using Optimal Sensor Placement and Deep Learning** — *Jan 2023-Present*
  - Modelled a feed-forward neural network to learn the relationship between sensor measurements and the reduced-order state of the system.
- **California Housing Prices Prediction**
  - Extracted data from Statlib Repository for housing prices in state of California
  - Performed EDA, Engineered new features and regressed house prices as a function of geographical and demographic features along with new engineered features.
  - Built Linear Regression, DecisionTreeRegressor, RandomForestRegressor and SupportVectorRegressor models. RandomForestRegressor performed the best with an RMSE of $50,435 and an MAPE of 18.23%
- **MNIST Digits Classifier**
  - Performed binary (5 vs not 5) and multi-class classification with 10 digits using the MNIST dataset
  - Created a multilabel model to classify an instance of image with labels *is odd* and *is greater than 7*
  - Used SGDClassifier, RandomForestClassifier, SupportVectorClassifier, KNearestNeighboursClassifier for the above tasks. Attained an accuracy of 97.64% for multilabel classifier with KNN and 90% for multiclass classifier with SGDClassifier.
- **Data Exploration with SQL**
  - Extracted, wrangled & cleaned data in a publically available housing prices dataset.
  - Performed missing value imputation, address split, column standardization, duplicate removal, dropping unused columns to wrangle and draw insights from the data.
- **COVID-19 Data Understanding with SQL**
  - Performed CRUD operations for populated tables from xlsx format
  - Wrote queries to find topk, bottomk, totals, averages etc. of different fields in the table and used CTEs / TempTables and created/stored views

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Python, SQL
Developer Tools: Microsoft Office
Frameworks: Tableau, Microsoft Excel, Microsoft Word
Areas of Interest: Machine Learning, Deep Learning, Data Engineering, Data Wrangling, Data Analytics, Web Scraping

CERTIFICATIONS

- **Machine Learning** — *04/2021-07/2021*
  Udemy
- **Deep Learning by Andrew Ng** — *10/2022-12/2022*
  Coursera
- **IBM Data Science Professional Certificate** — *07/2022-12/2022*
  Coursera
- **Google's Python Crash Course** — *07/2020-08/2020*
  Coursera
- **Programming in C++**
  Coding Ninjas — *12/2019-04/2020*

ACHIEVEMENTS

- **HSC (2019):** Figured in top 1 percentile of all scorers — *2019*
- **Enthusia, VJTI:** Founder, E-Sports Division, Enthusia SportsFest — *2021*
- **IYMC, Lucknow:** Bronze, International Mathematics Convention in solo and group competitions — *2017*
- **Sepak Takraw:** State Level representation in the sport Sepak Takraw, selected for National Trials — *2017*