ABHAY KUMAR GUPTA

DELHI, INDIA

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EDUCATION

National Institute of Technology Trichy **Aug 2019 - Jul 2023**

B.Tech. Instrumentation and Control Engineering (Major) CGPA: 8.16/10

B.Tech. Computer Science (Minor) CGPA: 7.00/10

PROFESSIONAL EXPERIENCE

Front-end Analyst, Deloitte USI, Mumbai **Sep 2023 - Present**

- Manage front-end development projects using Python, JavaScript, and React while executing thorough data analysis with advanced Excel skills.
- Analyze data using Python, implementing Machine Learning algorithms and Data Visualization techniques.
- Develop innovative solutions by integrating technical expertise with analytical acumen, delivering actionable insights for effective decision-making.

INTERNSHIPS

Research Intern, Department of Computer Application, NIT Trichy **Jul - Aug 2022**

- Researched the cause of machine failures in industries through various research papers and studies and performed Exploratory Data Analysis and classification models on the Bearing Dataset from Case Western Reserve University (CWRU).

Data Analyst Intern, Vitara Enterprises, Delhi (Remote) **Jun - Jul 2022**

- Researched time series analysis of stock price at Vitara Enterprises using different Deep Learning models and implemented various visualization tools for conveying insights and analyzing stock price data using Power BI for presentation.

RELEVANT PROJECT

Heart Monitoring System and Early Disease Prediction using Machine Learning and Python **Jan - Jun 2023**

National Institute of Technology, Trichy

Team Size: Four **Role**: Team Lead

Project Summary:

- Devised a wearable monitoring sensor system for the heart, collected the Heart Rate, Blood Pressure, and Oxygen level data using a sensor (MAX30100), and employed it for building a Machine Learning model for early prediction of cardiovascular diseases.
- Developed a mobile application to collect age, height, weight, diabetes, and cholesterol data and used Machine Learning models for predictive analysis.
- **Results:** Designed a wearable system for early detection of cardiovascular disease with high accuracy.
- **Tools/Techniques/Skills Used:** Python libraries - NumPy, Pandas, Scikit-learn, SciPy, Matplotlib, LightGBM
- **Practical Application:** The system would be helpful for the early detection of heart-related problems.
- **Accuracy:** Decision Tree (63.18%), Random Forest (70.69%), SVC (71.92%), Light GBM (73.52%), and Gaussian NB(58.09%).

TECHNICAL SKILLS

Data Analysis (2 yrs.), Python (2 yrs.), Data Visualization (2 yrs.), Web Development (1 yr.), SQL (2 yrs.), React & JavaScript (1 yr.), Tableau and Power BI (1 yr.), Machine Learning and Deep Learning (1 yr.), and Excel (2 yrs.), Database Management (1 yr.)

CERTIFICATIONS

- Business Analytics Fundamentals, Udemy Jun 2024
- Introduction to Corporate Finance, Udemy Feb 2024
- Front-End Development Advanced, Deloitte Technology Academy, Mumbai Nov 2023
- SQL (Basic), HackerRank Sep 2022
- Python (Basic), HackerRank Apr 2022
- Web Design with HTML and CSS, IIT Kharagpur Jul 2021

ACHIEVEMENTS/CO-CURRICULAR/EXTRACURRICULAR

- 1st Position, All India Inter NIT Hockey Tournament, Calicut 2023
- Organizer, Exhibition, Hackathon and Case-Study Competition, Pragyan, NIT, Trichy 2022 - 2023
- 2nd Position, Sports Fest: Spardha, Indian Institute of Technology, Banaras Hindu University, Varanasi 2022