



## Abhishek Choudhary

Integrated M.Tech. Geophysical Technology

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### Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2023	Int M.Tech(B.Tech + M.tech)(UG)	Indian Institute of Technology, Roorkee	7.2/10
2015	RBSE(XII)	Yadav Bhartiya Senior Secondary School	77.60%
2013	CBSE(X)	Kendriya Vidyalaya No.1 Bikaner	9.6/10

### Experience

#### Software Development Engineer - 1 | Cogoport Pvt Ltd

July 2023 - Oct 2023

- **Migrated Finance Service:** Effectively spearheaded the migration of the Business Finance Service, prioritizing the invoicing segment, and achieved success in transitioning from Ruby on Rails to FastAPI.
- **Invoice API Development:** Designed and developed the invoicing API, allowing the creation and dynamic updates of invoices to accommodate changing service modes (e.g., land to ocean or ocean to land).
- **Performance Enhancement:** Achieved a remarkable performance boost of 30 to 40% by optimizing database design and SQL query execution, resulting in faster API response times.
- **Finance Integration:** Collaborated closely for deep payload understanding, ensuring seamless cross-team integration.
- **Tech Stack used:** Backend(FastAPI, Ruby on Rails), React.JS, Python Pydantic, Peewee PostgreSQL.

### Internships

#### Data Analyst | Technocolabs Softwares

August 2022 - Sept 2022

- Performed data-processing using Pandas and Seaborn packages and analyzed it via various EDA techniques.
- Performed feature engineering on danceability, energy, acoustics, and tempo, thus computed feature importance.
- Trained a classifier to distinguish between the two genres based only on track information derived from Echonest.
- Implemented PCA, logistic regression, and decision tree algorithms and found the latter to have the best accuracy.

#### Coding Mentor | Coding Ninjas

March 2021 - June 2021

- Conducted doubt sessions encompassing Competitive Programming, Debugging, Data Structures, Algorithms, and Object-Oriented Programming (OOPs), assisting students in resolving coding challenges.
- Provided tutoring support for assignments, projects, and resolved over 1000 doubts with a high average rating of 4.86/5.

#### Technical Developer | Doubtnut

May 2019 - July 2019

- Played a pivotal role in crafting educational material to aid students in mastering web development technologies.
- **Technology Stack:** HTML, CSS, JavaScript, Bootstrap, React.js, Git, Github

### Key Projects

#### Seismic Noise Attenuation Using Unsupervised Sparse Feature Learning | IIT ROORKEE

DEC 2022 - MAY 2023

- **Denoising Research:** Explored various denoising algorithms and identified auto-encoders as a promising approach.
- **Robust Neural Network:** Enhanced the model's robustness by implementing dropout for sparse feature representation, without relying on assumptions like low rank and linearity present in state-of-the-art techniques like MSSA and DRR.
- **Technology Stack used:** Python, Matlab, Tensorflow

#### Dynamic Blogging App | Self Project

Aug 2023

- **Robust Blog Platform:** Inspired by Medium, offering user-friendly features like post management, filtering, registration, login, profiles, reading time estimates, drafts, revision history, and list creation.
- **Technology Stack used :** Ruby on Rails, Postgres SQL, Postman, Git/Github.

#### Todo list App | Self Project

Aug 2023

- **Advanced To-Do List App:** Developed a robust task manager app with features like categorization, priorities, powerful filters, search, backlog tracking, and secure local storage for seamless task management across sessions and devices.
- **Technology Stack used:** Html, Css, Javascript

### Technical Skills

- **Programming Languages:** C/C++, Python, Ruby, Javascript, SQL, C.
- **Frameworks** FastApi, Ruby on Rails, Node.js ASP.NET, React.js, Matlab.
- **Softwares Packages** Docker, Git, Git-hub, MongoDB, MySQL,PostgreSQL, Redis.

### Achievements

- **AIR 6337 in JEE Advance 2018**
- **Codeforces** Specialist on Codeforces with rating 1400+.
- **Codechef** 4 star on Codechef with rating 1800+.
- **Leetcode** Knight on Leetcode with rating 1900+.