ABHISHEK KUMAR

📞 +91 8797111643   ⌕ GitHub   in Linkedin   ✉ abhishek.nitdelhi+jobs@gmail.com   🌐 **Portfolio**

EDUCATION

National Institute of Technology Delhi   2021–2025
B.Tech in Electronics and Communication Engineering | Minor Degree in AI/ML   *CGPA: 7.88 /10*
New Horizon School Bhagalpur   2018–2020
12th Grade   *Percentage: 96.2%*

TECHNICAL SKILLS

Languages/Database: C/C++, Python, JavaScript/TypeScript, HTML/CSS, SQL
Software & Tools: Docker, Git/GitHub, VS Code, PyCharm, MATLAB
Frameworks: Next.js, Express
Libraries: React, Mongoose, SymPy, Matplotlib, OpenCV
Core Computer Science Concepts: OOPS, OS, DBMS
Machine Learning Libraries: SciKit Learn, TensorFlow

WORK EXPERIENCE

Google Summer of Code (GSoC) SymPy | *Open source Contributor*   Remote | May 2024 - Sept 2024
- **Improving Control module :** Contributed to the Control module by enhancing the **State Space** and **Transfer Function** classes, refactoring plots to use symbolic methods instead of numerical methods, and implementing new plot types (Nyquist & Nichols).
- **Added Interconnection between State Space classes :** Enhanced State Space module by integrating **Series**, **Parallel**, and **Feedback** interconnections between **State Space** classes. Implemented symbolic solvers for **state vectors** and **output vectors**, boosting functionality.
- **Code Quality:** Ensured high code quality by implementing comprehensive tests, adhering to coding standards, and providing thorough documentation.

VSAT Pvt. Ltd. | *Web Development Intern*   Remote | June 2023 – July 2023
- **Improving User Experience :** Elevated user experience by revamping the UI, ensuring better alignment, incorporating sliders, and creating informative 'About Us' & 'Contact Us' pages using technologies like jQuery, Bootstrap classes, and JavaScript.
- Added a Quick Enquiry form with **jQuery** for validation, improved website responsiveness via Bootstrap, and integrated maps, driving improved user engagement and functionality.

PERSONAL PROJECTS

Musicly | *Next.js, React, Tailwind CSS, Appwrite Cloud, Express, Socket.io, TypeScript*   Link | Code
- Developed a feature-rich music app using **Next.js 14**, **React**, and **TypeScript**, delivering a responsive, interactive user interface.
- Integrated **Appwrite Cloud** for **authentication** and **song storage**, with a backend powered by **Express.js** to manage user data and APIs.
- Implemented real-time communication via **Socket.io**, enabling **live chat** and **synchronized music listening** with shared timestamps.

AutoResume | *Python, CI/CD*   Link
- Built an automated system using LaTeX and Python scripts to generate, compile, and distribute professional resumes. Included a **CI/CD** pipeline with **GitHub Actions** to streamline the process, ensuring efficient and error-free resume creation.
- Crafted seamless integration with **Google Drive** and **Telegram** using their respective APIs. Designed and developed functionalities to upload generated resumes to Google Drive and send both the file and its download link via a Telegram bot, providing real-time status updates.

Articlyfy | *Next JS, React, Appwrite Cloud, TypeScript*   Link | Code
- Developed a feature-rich Next.js 14 website named **Articlyfy**, utilizing **React** for a dynamic frontend and **TypeScript**.
- Introduced complete **authentication** and **database functionality** using **Appwrite Cloud**, enabling seamless user authentication and article storage.

CODING PROFILES

Github | **Leetcode** | **CodeChef** | **Codeforces** |

ACHIEVEMENTS

- Selected for **Google Summer of Code (GSoC) 2024**, standing out among **43,984** applicants from **172 countries**, placing in the **top 0.02%**, for contributions to open-source projects.
- Acquired proficiency in advanced algorithms and data structures on LeetCode, attaining a rating of **1600+** and solving over **600+** questions.
- Secured a rank of 32 in the CodeRush coding competition.