AYUSH KUMAR SINGH

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EDUCATION

Bharati Vidyapeeth's College of Engineering   Sep. 2023 – June 2027
Bachelor of Technology in Information Technology   *Delhi, India*

RELEVANT COURSEWORK

- Data Structures
- CS50: Introduction to CS
- Object-Oriented Programming
- CS229: Machine Learning
- Computer Architecture
- CS50W: Web Programming

EXPERIENCE

Cryptonic Labs   Sept 2024 – Nov 2024
Full-Stack Developer   *Delhi, India*
- Built a responsive landing page with **Next.js**, **Framer Motion**, and implemented a dynamic blog route with **Sanity CMS**.
- Set up **CI/CD** pipelines, wrote **technical articles**, and improved page **SEO** to reach **#1 rank on Google Search**.

PROJECTS

Grandmaster | *C++, Qt Framework, CMake, WSL*   GitHub
- Developing a high-performance chess engine and GUI chess game from scratch using the **Qt Framework** and **C++**.
- Utilized **CMake**, **WSL**, and **Bash** scripts to automate the build process and ensure cross-platform compatibility.

CodeJeet | *Next.js, Selenium, TypeScript*   GitHub / Live
- Engineered a platform offering 8000+ company-specific and topic-wise DSA questions with text and video explanations.
- Attracted **4500+ active users**, deployed on Heroku, and implemented a **CI/CD pipeline** for seamless updates.

Finveda | *HTML, CSS, Bootstrap, JavaScript, OpenAI API*   GitHub / Live
- Developed a financial literacy platform offering blogs, courses, AI-powered chatbot, games, tools, and live market stats.
- Achieved **441 forks**, **174 stars**, and **257 contributors** on GitHub; scaled to handle **1.8M edge requests** in the past year.

WhatsMyTrash | *Python, Tensorflow, scikit-learn, Keras, Matplotlib, Seaborn, Flask*   GitHub
- Trained a **CNN** model using **TensorFlow**, **Keras**, and **Flask** to differentiate between organic and recyclable wastes.
- Achieved **91.855%** accuracy, utilizing **scikit-learn**, **Pandas**, **NumPy**, and **Matplotlib** for data processing and visualization.

DesiNFT | *Next.js, JavaScript, Solidity, Hardhat, Chai.js, Tailwind CSS*   GitHub / Live
- Built a user-friendly NFT marketplace on the **Polygon Cardano Testnet** to mint, buy, and sell Indian NFTs.
- Designed a modern, engaging platform that enables users to explore and interact with Indian culture through NFTs.

TECHNICAL SKILLS

Languages: Python, C++, C, SQL, JavaScript, TypeScript, HTML/CSS, Solidity
Developer Tools: Node.js, PostgreSQL, MongoDB, AWS, Google Cloud Platform, Git, GitHub, WordPress, Figma
Frameworks: Express, React, Tailwind CSS, Next.js, Hardhat
Libraries: pandas, NumPy, Tensorflow, Keras, Selenium

OPEN SOURCE CONTRIBUTIONS

GirlScript Summer of Code 2024 | *Project Admin*
- Managed **1,448 pull requests** and **1,897 issues**, providing guidance and support to contributors while overseeing project development and ensuring smooth collaboration.

Hacktoberfest 2024 | *Contributor*
- Contributed to the **Helpmate AI** project, implementing voice search functionality using the **Web Speech API** (#PR1) and adding **copy and share answer** features (#PR2).

LEADERSHIP / ACHIEVEMENTS

1. Secured 1st place at **Udyamitsav'24 Hackathon** (IIT Jammu) for developing, an AI-powered financial literacy platform.
2. Won 1st place at **SummerHack 1.0 Hackathon** for creating a computer vision-based navigation system for blind people.
3. **AWS Cloud Club Captain**: Leading AWS Cloud Club BVCOE, organized activities, and sessions on cloud computing.
4. **National Cadet Corps**: Serving as a Flight Cadet in the Senior Division NCC, demonstrating leadership and discipline.
5. Grand Finalist in **Smart India Hackathon 2024**, out of **492,960 participants**.