

# HARSHVARDHAN SHARMA

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## Education

**International Institute of Information Technology (IIIT) Naya Raipur**

**Nov 2022 – Present**

*Bachelor of Technology, Data Science and Artificial Intelligence*

*CGPA: 9.41*

**Ryan International School**

**Jun 2021 – Jul 2022**

*CBSE Board, Class - XII*

*97.2%*

## Experience

**Proactive Technologies - Project Intern** | *JavaScript, React, MongoDB, Amazon S3*

**May 2025 – Jun 2025**

- Developed a **full-stack web application** for the firm, leveraging the **MERN stack** (MongoDB, Express.js, React.js, Node.js) and **Amazon S3** for robust cloud storage.
- Engineered core **e-commerce-like functionalities** including Role-Based Access Control (RBAC), real-time order status tracking, comprehensive customer query management, and secure invoice viewing, significantly enhancing **post-order customer experience** and improving operational efficiency by **40%**.

## Projects

**Brain Tumor Classification using Spatiotemporal Model** | *Deep Learning, ResNet(2+1)D*

- Pioneered an innovative approach for **3-D volumetric MRI** scan classification utilizing **spatiotemporal ResNet(2+1)D** models, traditionally applied in video analysis, to effectively process complex medical imaging data.
- Developed a novel model architecture that efficiently decomposes **3-D convolutions** into distinct **2-D spatial** and **1-D inter-slice** operations, optimizing the capture of detailed **anatomical and relational** information within MRI scans.
- Achieved an impressive **90%** overall accuracy in categorizing 3-D MRI Brain Scans into Healthy, High-Grade Glioma (HGG), and Low-Grade Glioma (LGG).

**RouteX - Custom API Gateway** | *Go, TypeScript, React, MongoDB, Docker*

- Designed a **custom API Gateway** in **Go** handling **1,000+** requests/minute with JWT and API key authentication, token-bucket rate limiting, and dynamic route mapping, reducing unauthorized access by **95%**.
- Built an intuitive and highly functional interactive admin dashboard with **4+** core modules (API Key Manager, Route Manager, JWT Generator, API Tester), improving API management efficiency by **60%**.

**Supply Chain Management using Blockchain** | *Solidity, React, Node, MongoDB, Ethereum, Web3*

- Created a **full-stack decentralized** supply chain management system, reducing the potential for counterfeiting and diversion by an estimated **90%** through immutable ledger technology.
- Engineered a seamless medicine tracking system, enabling **secure role-based access** for **4** participant types, and streamlining supply chain operations, resulting in a faster delivery to end consumers.
- Written in **Solidity**, the smart contract implements **5+** features: adding Medicines, registering Participants, assigning participants to medicines, tracking stages, shipment creation and medicine transfer logging.

**Applicant Tracking System** | *Python, NLP, Machine Learning, Streamlit*

- Devised a sophisticated system that analyzed and categorized job descriptions, parsing key qualifications and skills, which streamlined the hiring process for **20+** positions by ensuring alignment with candidate profiles.
- Leveraged **NLP** to extract qualitative insights, analyzing over **1,000 data points per candidate**; enhanced candidate profiles by identifying previously overlooked skills and improving overall profile accuracy by **8%**.
- The user interacts with the ATS through a **full-stack web interface**, featuring real-time updates, produces a resume report within **10 to 15 seconds** of upload and a secure environment that complies with data protection regulations.

## Technical Skills

**Languages:** C, C++, Go, JavaScript, SQL, TypeScript, HTML/CSS

**Frameworks and Libraries:** ReactJS, NodeJS, ExpressJS, NextJS, Flask, NumPy, Pandas, Scikit-learn, Tensorflow

**Tools:** Git, Linux, Power BI, Tableau, Microsoft Excel, Jupyter, Docker

**Databases:** MongoDB, PostgreSQL

## Achievements

- Selected for Amazon ML Summer School 2025
- Secured **17<sup>th</sup> rank out of 3858** in Kaggle Playground Series
- Social Media Sentiment Analysis through Novel User-generated Content, issued by **IEEE ICETA**
- AI-Based Flappy Bird Game with Dynamic Level Generation, issued by **IEEE IATMSI**