# 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%*

## Relevant Coursework

- Data Structures
- Data Analytics
- Machine Learning
- Database Management
- Artificial Intelligence
- Cryptography
- Algorithms
- Deep Learning

## Projects

**Brain Tumor Classification using Spatiospatial Model** | *Deep Learning, ResNet(2+1)D* **Aug 2024 – Dec 2024**

- This research explores an innovative approach to classifying 3D volumetric MRI scans using spatiotemporal models, ResNet(2+1)D, traditionally applied to video analysis.
- This model effectively processes data by decomposing 3D convolutions into two operations: a 2D convolution to capture spatial information within frames (or slices) and a 1D convolution to handle interframe (or inter-slice) relationships.
- Achieving an overall accuracy of **90%** in categorizing between Healthy, HGG and LGG 3D MRI Brain Scans.

**Applicant Tracking System** | *Python, NLP, Machine Learning, Full Stack Web Development* **Jan 2024 – May 2024**

- Developed a sophisticated system that analyzed and categorized job descriptions, parsing key qualifications and skills; streamlined the hiring process for 20+ positions by ensuring alignment with candidate profiles.
- ML algorithms then employ semantic matching to identify the most relevant candidates, providing accurate resume ranking and scoring.
- Candidate profiling is enriched with qualitative aspects extracted by NLP, analyzing over 1,000 data points per candidate to create comprehensive profiles
- The user interacts with the ATS through a full stack web interface, featuring real-time updates, notifications, produces resume report within 10 to 15 seconds of upload and a secure environment that complies with data protection regulations.

**Social Media Sentiment Analysis** | *Python, NLP, Full Stack Web Development* **Sep 2023 – Dec 2023**

- Developed a machine learning model for sentiment analysis across Twitter and YouTube, achieving a **95%+** accuracy rate in categorizing user sentiments.
- Facilitated actionable insights for marketing strategies based on real-time feedback from a dataset of over 1,000,000+ entries.
- Social media significantly influences public opinions and ideas with over 4.9 billion users globally, making it crucial to analyze the sentiments expressed on these platforms.
- Understanding these sentiments helps in gaining insights into trends, perceptions, and the overall impact of social media on society.

## Technical Skills

**Languages**: Python, C, C++, SQL, Javascript
**Technologies/Frameworks**: Git, Linux, NumPy, Pandas, Matplotlib, Sci-Kit Learn, Tensorflow, React.js, Node.js, Express.js, Tableau, Microsoft Excel, Flask, Jupyter, Docker, MongoDB, PostgreSQL

## Languages and Hobbies

- English : Professional Proficiency
- Hindi : Native Proficiency
- Cinephile
- Sports and Fitness Enthusiast

## Achievements

**AI-Based Flappy Bird Game with Dynamic Level Generation** **Mar 2024**
*Issued by IEEE IATMSI* *Certificate of Appreciation*

**Multi Agent Reinforcement Learning for Cooperative Hunting Scenarios** **Feb 2025**
*Issued by ReadyTensor.AI* *Certificate of Publication*