

HARSH KUMAR

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CAREER OBJECTIVE

A highly motivated Artificial Intelligence and Machine Learning engineer with strong skills in Python, Java, Machine Learning Algorithms, Data Analysis, and Software Development. Seeking a challenging role in a dynamic organization to utilize my technical expertise and academic background in AI and ML to drive innovation, optimize processes, and contribute to organizational growth. Committed to continuous professional development and learning to stay at the forefront of emerging technologies.

EDUCATION QUALIFICATION

- **Bachelor of Engineering – Artificial Intelligence and Machine Learning**
CMR Institute of Technology, Bengaluru
8.81 CGPA, 2025 (Pursuing)
- **Pre – University Course – Science**
Shivam Residential Public School, Nalanda
81%, 2021
- **10th Grade**
P.T.J.M. Saraswati Vidya Mandir, Hasanpur, Rajgir
95%, 2019

TECHNICAL SKILLS

Languages: Python, C, Java

Web Technologies: HTML, CSS

Software and Applications: VS Code, Eclipse, Spyder, Jupyter Notebook, MATLAB Simulink, Multisim, Solid Edge

Database: MySQL, MongoDB

PROJECTS

- **Women Safety Analytics – Protecting Women from Safety Threats**
Description: Designed and implemented an AI-based real-time surveillance system to improve women's safety in public spaces. The system detects potential threats, recognizes distress gestures, and analyses trends to identify high-risk areas. It enables early intervention by law enforcement through proactive alerts.
Tools used: Python, SVM, OpenCV, YOLO, CNN, Euclidean Distance, Media Pipe, QGIS Model, Machine Learning (ML), Artificial Intelligence (AI), Open pose.
Learning Outcome: Gained experience in developing real-time monitoring systems, enhancing data-driven decision-making for safety trends analysis, and ensuring system scalability, while addressing privacy and security challenges.
- **Diabetes Prediction Using Machine Learning**
Description: Developed a predictive model to assess diabetes risk using patient data. Applied machine learning algorithms to analyze various health metrics and predict the likelihood of diabetes, aiding in early diagnosis and preventive care.
Tools used: Python, Support Vector Machine, Scikit-learn, Random Forest, Logistic Regression, K-Nearest Neighbor (KNN), Data Preprocessing, Jupyter Notebook.
Learning Outcome: Enhanced proficiency in machine learning techniques for healthcare applications, data preprocessing, model evaluation, and optimizing algorithms for accurate prediction, contributing to improved patient outcomes.

INTERNSHIPS

- **Aura Solutions**
Duration: 3 Month
Designation: Data Analyst
Roles & Responsibilities:
 - Cleaning and preprocessing raw data to ensure it is ready for analysis.
 - Creating visualizations to communicate findings effectively using tools like Excel, Tableau.
 - Working closely with cross-functional teams like marketing, product, or engineering to understand business goals.

CO-CURRICULAR ACTIVITIES & EXTRA-CURRICULAR ACTIVITIES

Co- Curricular Activities

- **Seminars:**
 - Attended seminars focusing on Cybersecurity, Machine Learning, and Data Analysis organised by CMRIT
 - Attended Bengaluru Tech Summit 2023

- **Online Courses and Certifications:**
 - Python with DSA from Coding Ninjas
 - Python for Data Science (NPTEL)
 - Certification in Signal Processing-COE organised by CMRIT
 - MySQL Basics (Great Learning)
- **Technical Club:** Organised multiple coding contests, seminars, workshops for Cybernauts club.
- **Industrial Visits:** Visited ISRO (2024) and HAL (2023) in Bengaluru, gaining insights into their operations and technologies.

Extra – Curricular Activities:

- **Sports:** Captain of the department cricket team, college cricket team representative, active Kabaddi & Badminton player.
- **NSS:**
 - **Blood Donation Drive Volunteer:** Actively volunteered in organizing a blood donation drive with over 100 participants, contributing to community health and well-being.
 - **Green Campus Project:** Participated in the Green Campus Project in collaboration with NSS CMRIT, Yuvaka Sangha, and EY GDS, focusing on environmental sustainability and campus beautification initiatives.

AWARDS & ACHIEVEMENTS

- 1st Place, National Level Social Hackathon 2023
- 1st Place, College-Level Smart India Hackathon,2024
- 2nd Place, VTU Cricket Tournament
- Smart India Hackathon Finalist,2024

PERSONAL DETAILS

Date of Birth : 19/08/2003
Gender : Male
Nationality : Indian
Permanent Address : Nayaganj, Athghara Market, Silao, Nalanda, Bihar,803117
Languages Known : Hindi, English
Hobbies : Playing Cricket, Reading Defence and Financial Blogs, Cooking

REFERENCE

- Name: Dr Shyam P Joy
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- Name: Anshika Shukla
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