

# HARSH KUMAR SAHA

Artificial Intelligence & Machine Learning Engineer

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## Education

- M.tech in AI & ML from Amity University Gurgaon, Haryana GPA: 9.02 / 10 (July 2023 - May 2024)
- B.tech in AI & ML from Amity University Gurgaon, Haryana GPA: 9.02 / 10 (July 2019 - July 2023)
- Higher Senior Secondary School in Science from Delhi Public School, Siliguri (April 2017 - April 2019)
- Senior Secondary from Don Bosco School, Siliguri (April 2006 - April 2017)

## Experience

Engineer - Project Based Role (Feb 2024 - June 2024)

Hyundai

- Achieved 25% growth for Hyundai using Python, TensorFlow, Java and LLM's skills.
- Led Hyundai Care team which led to 60% of improvement in the application.
- Integrated a machine learning model with 92% accuracy into the Hyundai - Care app, improving predictive maintenance capabilities by 30%.
- Collaborated with multidisciplinary teams to swiftly identify and address issues, reducing operational disruptions by 20%.

Lead Programmer - Project Based Role (Jan 2022 - Feb 2024)

Freelancer - Gurgaon, Haryana

- Implemented solutions aligned with client specs, improving functionality, scalability, and efficiency by 30%.
- Defined prerequisites and tested server code, enhancing reliability by 25%.
- Addressed customer requests and delivered solutions, boosting satisfaction by 20%.

## Technical Skills and Interests

- Proficient in Python, SQL, C, C++, Java.
- Experienced with Scikit-learn, TensorFlow, Keras, PyTorch and CNNs.
- Strong understanding of ML algorithms (supervised, unsupervised, semi-supervised)
- Knowledgeable in data structures, statistical analysis, LLMs and data visualization with Power BI.
- Extensive hands-on experience with tools such as Jira and Figma.

## Projects

- Hyundai Care AI/ML Integration
- NeuraCraft: An In-Depth Study on Sentence Modeling Utilizing Convolutional Neural Networks to Enhance Natural Language Comprehension / [github](#)
- Crime Mapper: Utilizing Predictive Analytics to Visualize Crime Trends in India / [github](#)
- Development of Management Software in C++, Java, and Python
- Dijkstra's Safest Path Identification through Spatio-Temporal Analysis of FIR Record Database
  - Developed a method for identifying the safest path, reducing travel risk by 40% with LSA, fuzzy geotagging, and Dijkstra's algorithm.
  - Implemented a hybrid ANNs and ARIMA model for crime forecasting with 88% accuracy, enhancing route safety by 35%.

## Publications

H. Saha, P. Dubey, V. Srivastava, CNNs for Sentence Modelling in Sentiment Analysis, IJIRT, ISSN: 2349-6002, Vol.

10, Issue 12 (May 2024). [IJIRT Paper](#)

H. Saha, P. Dubey, V. Srivastava, Sentence Modelling with CNNs, IJFMR, ISSN: 2582-2160, Vol. 6, Issue 2 (Mar-Apr

2024). [IJFMR Paper](#)

H. Saha, Autism Spectrum Disorder Identification, Multifunctional Advanced Materials, ISBN: 978-93-5906-126-9.