Naman Raghuvanshi

Mobile: +1 (223) 239 9465

https://www.linkedin.com/in/naman2716 | https://github.com/naman2716 | Email: namanr.co.17@gmail.com |

Programming Skills

- **Languages:** C, C++, JAVA, C#, Python, Go, HTML, CSS, JavaScript, Spring Boot, Node.js, React Native, Spring, PHP
- **Libraries & Frameworks:** TensorFlow, Keras, NumPy, NLP, LLM, Pandas, CUDA, PyTorch, Deep Learning, Computer Vision
- **Databases:** MySQL, NoSQL, MongoDB, Oracle, SAP, AWS, VMWare, Django
- **Development Environment:** Eclipse, Github, Maven, Git, Angular, JSON, Kafka, REST, Linux

Experience

- **Software Development Engineer** Oct 2022 - May 2023
  TE Connectivity - React, JavaScript, HTML, CSS, Python, Angular PA, USA
  - Developed an automated system to handle a wide range of upper dies, lower dies, and terminal geometric profiles, enhancing HV-20 machine accuracy for high voltage cables and terminals by 40%.
  - Reduced setup time for determining Regions of Interest (ROI) for High Voltage Die Sets from 30 minutes to 10 minutes, decreasing human error by 60% and saving $5K annually in labor costs.
  - Streamlined the delivery of computer vision- and AI-based inspection data to external customers electronically, improving data accuracy by 50% and reducing inspection time by 30%.
- **Graduate Teaching Assistant** Sep 2022 - May 2024
  The Pennsylvania State University - Data Science, Python, Machine Learning PA, USA
  - Engineered a data-driven approach for course material development, leveraging Big Data analytics to optimize content delivery, leading to a 25% boost in student performance and satisfaction across 10+ courses.
  - Collaborated with 5 faculty members to develop and improve curriculum and instructional strategies, streamlining processes and reducing administrative tasks by 40%.
- **Founder and Chief Technology Officer** May 2021 - Jul 2022
  Cathode Softwares - HTML, JavaScript, AWS, SQL, Machine Learning, Python, React, Pytorch, Tensorflow Delhi
  - Formulated a Reinforcement learning algorithm to assess and enhance the efficacy of Aspens.tech's(Fin-Tech) stock forecasting tools; boosted prediction accuracy by 28% and optimized cloud resource utilization, resulting in a 40% cost reduction
  - Architected an innovative robo-advisory tool within the website framework, automating investment advice and refining user interactions; increased average investment portfolio size by 25% and increased user retention by 50%.
- **Software Development Engineer** May 2020 - Jul 2020
  Samsung Electronics, R&D - Machine Learning, Tensorflow, Python, AWS, Computer Vision, Pytorch, C++ Bangalore
  - Led the implementation of ML's logistic regression model in **Samsung's 'SmartThings'** IOT app's 'Livecast' service, enabling tracking of customer API usage and optimizing quota allocation for improved performance by 20%.
  - Engineered innovative algorithms to optimize server performance, reducing latency by 40% and increasing data processing speed by 50%.
  - Orchestrated a comprehensive review of operational expenses, leading to a cost-saving initiative that yielded around $1M.

Projects

- **Cervical Fracture Detection and Localization (Python, Tensorflow, Machine Learning, Pytorch)**
  - Analyzed an RSNA dataset of 3000 cervical spine CT scans, focusing on 83 studies with segmentation data and 12 with bounding box coordinates.
  - Proposed the utilization of EfficientNetV2 to streamline image segmentation processes, resulting in a 30% reduction in model training time and enabling faster and efficient fracture area identification.
- **Self Drive Cars on Carla Simulation (Machine Learning, Tensorflow, Python, Pytorch, Computer Vision)**
  - Spearheaded the application of Reinforcement Learning techniques to enhance autonomous driving capabilities, increasing navigation accuracy by 25% and reducing collision risks in simulated environments.

Education

- **The Pennsylvania State University** PA, USA
  Master of Science in Computer Science Aug 2022 – May 2024
  Courses: Machine Learning, Artificial Intelligence, Distributed Systems, Database Management, Advance Algorithm and design
- **Delhi University** Delhi, India
  Bachelor of Engineering in Computer Engineering Aug 2017 – May 2021
  Research Work:(Springer Journal, ICICC) Stock Price Prediction Using Reinforcement Learning

Certifications

1. EDA for Machine Learning(IBM)
2. AWS Developer Certification(On Going)