

ADITYA SINGH

Software Engineer

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📍 Muzaffarnagar - U.P.

in [Linkedin](#)

📄 [Github](#)

[Leetcode](#)

EXPERIENCE

Software Developer Engineer - Intern

[Bosch Global Software Technologies Pvt Ltd \(BGSW\)](#)

📅 June 2022 – April 2023 📍 Bengaluru, India

- Worked on **Near Range Camera System (NRCs)** focusing on Embedded Systems for Daimler (Mercedes-benz group), JLR and Ford.
- Working with the team on the design and development of **Initialize Manager** (responsible for **data verification, validation and APU booting**) and building **Data Delivery API**.
- **Optimised the existing code** and worked with **FLUX** - for maintaining software architecture.
- Did all operations and functions using Agile methodologies ranging from **Debugging, Testing, Optimization, and writing monolithic programmes** using **Java and C++**.

Data Science and Machine Learning - Intern

[The Supply Chain Net](#)

📅 May 2019 – June 2019 📍 New Delhi, India

- Did **Data Analysis and Visualization** to find hidden patterns and trends in given data set for generating weekly reports.
- Developed and Trained various ML models like **Support Vector Machine (SVM)**, **K-Nearest Neighbors (KNN)**, **Decision Trees**, **Naive Bayes** etc. for supervised and unsupervised learning.
- Identified and resolved **Simpson's paradox** by conducting a more granular analysis of the data.

ACHIEVEMENTS

- Secured **AIR 167** in coding competition **Codekaze 2023** conducted by **Coding Ninjas**.
- Solved Over **200+** Coding Questions on Different Coding Websites. - [Link](#)

TECHNICAL SKILLS

- **Programming Languages**
 - Java, Python, C++, JavaScript
- **Frameworks & Libraries**
 - Pandas, Numpy, Scikit Learn, Tensorflow
 - HTML, CSS, ReactJS, SQL
- **Version Control**
 - Git, Github

COURSEWORK SUBJECTS

- Advance and Applied Statistics
- Operating System
- Computer Networks
- Object Oriented Programming (OOPs)
- Database Management System (DBMS)

EDUCATION

M.E. (Software Engineering) - 8.66 CGPA

Thapar Institute of Engineering and Tech.

📅 2021 – 2023 📍 Patiala, Punjab

B.Tech. (IT) - 6.61 CGPA

Dehradun Institute of Technology

📅 2016 – 2020 📍 Dehradun, Uttarakhand

Higher Secondary - 70%

S.D. Public School

📅 2016 📍 Muzaffarnagar, U.P.

Secondary - 9.0 CGPA

S.D. Public School

📅 2014 📍 Muzaffarnagar, U.P.

PROJECTS

[Detecting Deceptive News](#)

- NLP | Python | TensorFlow | Keras
- Enhanced an [existing research paper's](#) NLP model using a **combined CNN-BiLSTM architecture**.
- Introduced **Scalable Attention** to focus on **vital words, boosting accuracy, precision, recall, and F-measure**.
- Elevated metrics from **93% to 97%**, significantly improving the paper's NLP model. [Github](#)

[Portfolio Website](#)

- ReactJs | JavaScript | HTML | CSS
- Built a personal portfolio website with fully responsive buttons and functions with lot of animations. [Website](#) / [Github](#)

[Multi - Camera System](#)

- Java | APIs | SQL | BOSCH - SDK
- Created a **cross-ECU communication framework** for a nearby camera system with **home parking, lane change, and parallel parking** functions.
- Implemented in **Java**, the framework enabled real-time communication between ECUs, essential for system accuracy and performance.

[Breast Cancer Prediction](#)

- ML | Python | Jupyter Notebook
- Built an Image Processing **ML model** to predict malignancy in patients using CSV inputs of tumor attributes like radius, texture, perimeter, and area.
- SVM outperformed other models, exhibiting superior **accuracy of 98%** in classifying tumors.