



## ADITYA SINGH

### CONTACT



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### SKILLS

- Machine Learning Models
- AI Algorithms
- Natural Language Processing
- Data Science & Analytics
- Data Mining & Visualization Tools
- Agile Leadership
- Web Applications Development
- Software Engineering Best Practices
- Full Development Life Cycle
- Project Management
- Migrations & Integrations
- User Experience (UX)
- Deep Learning
- Neural Networks
- Text Classification
- Sentiment Analysis
- Named Entity Recognition (NER)
- Language Modeling
- Part-of-Speech Tagging (POS)
- Topic Modeling
- Image Classification/Recognition
- Highly Detail-Oriented
- Flexible & Adaptable
- Self-motivated & Dedicated
- Object Oriented Programming
- Java Standard Edition (Java SE)

## PROFILE SUMMARY

Creative and driven Software Developer and Machine Learning (ML) practitioner with a broad-based experience in web-based technologies, application development, and leading high-profile projects. Technical expertise in implementation, customization, integration, and support of business application systems. Expert ability to develop and deploy new features, add functionality to products, stabilize performance, and elevate overall user experience. Proven ability to analyze user needs and software requirements to determine the feasibility of design with a strong approach to performing testing & debugging processes within set time frames and cost constraints. Intent on using advancements in AI (artificial intelligence) and ML (machine learning) based technology to solve problems and push the boundaries of computer intelligence. Strong work ethic and commitment to compliance with codes, regulations, and policies.

## CORE COMPETENCIES

- Solid technical expertise in Software Development Life Cycle and core Java technologies
- Expert in using Java technologies to develop web applications for client-server environments
- Expertise in diverse ML & NLP tools and algorithms gained through hands-on experience
- Proven experience with hands-on visualization and strong analytic programming skills
- Coding and development skills with experience in logic & object-oriented programming
- Strong written and verbal communication skills for documentation and correspondence
- Outstanding interpersonal skills with strong team spirit and great respect for diversity
- Exceptional organization skills with the ability to prioritize and multi-task effectively
- Excellent time management with high precision in a deadline-oriented environment

### Programming Languages/Technologies

Java, Python, R, DBMS, Machine Learning,  
Graph Theory, Statistics, MS Office Suite

## EXPERIENCE

### Software Developer | Bosch Global Software Technologies Private Ltd. Jun 2022 – May 2023

- Developed software using Java/C++ programming language to support Near Range Camera System ECU for Daimler (Mercedes Group) and Ford.
- Participate in the software development life cycle, including design, development, testing, and deployment phases.
- Collaborate with cross-functional teams- hardware engineers, software architects, and project managers, to ensure project success.
- Write and review technical documentation, such as design specifications, test plans, and user manuals.
- Analyze and resolve software defects and technical issues, using debugging tools and techniques.
- Contribute to the continuous improvement of the software development process and practices.
- Adhere to software development standards and best practices, including version control, code reviews, and unit testing.

### Data Analysis and Visualization | SCN Tech. Solutions

May 2018 – Jun 2018

- Analyzed datasets using R and applied different descriptive statistical methods to identify trends, patterns, and relationships.
- Cleaning and pre-processing data, including data normalization, data imputation, and data transformation, using R.
- Used data visualization tools, such as Matplotlib in Python, to create interactive and meaningful visualizations that help to convey insights and trends effectively.
- Collaborated with cross-functional teams, such as business analysts, data scientists, and software engineers, to understand business requirements and provide actionable insights.

## CERTIFICATES

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- **Data Camp** | [Data Science with Python along with projects](#)
- **IACT (Institute for Advanced Computer Technology)** | [Training in Python](#)
- **RCPL** | [Training in Java](#)

## LANGUAGES

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- **English** 

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- **Hindi** 

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## HOBBIES

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- Traveling
- Sports
- Reading Books

- Developed and maintained dashboards and reports, using tools like Tableau or Power BI, to track key performance indicators (KPIs) and provide actionable insights to stakeholders.
- Documented data analysis and visualization processes, including data sources, data transformations, and data visualization techniques, to ensure reproducibility and transparency.

## MAJOR PROJECTS & SEMINARS

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### Stress Detection Management

**Oct 2021 – Jan 2022**

- Created an ML model to detect the emotion of a given sample text dataset.
- Used SVM to classify different levels of emotions.
- Used different algorithms and adaptive boosting to increase the accuracy and performance of our model.

#### **Tech Stack:**

- Language – Java
- Technology – Machine Learning

### Breast Cancer Prediction:

**Sep 2018 – Mar 2019**

- Worked on different algorithms K-NN, SVM, Decision Tree, and Baye's Theorem.
- Compared the accuracies of these algorithms in the prediction of Breast Cancer.

#### **Tech Stack:**

- Language – Python.
- Technology – Numpy, Pandas, Matplotlib, Scikit-Learn.
- Algorithms - K-NN, SVM, Decision Tree, Baye's Theorem.
- Platform – Python IDLE.

### Analyzing Social Media (Twitter) Data in Python:

**Mar 20 18– Jun 2018**

- Collected Twitter data using the Tweepy library.
- Conducted analysis, fetching, and classification of the relevant data using Python concepts.

#### **Tech Stack:**

- Language – Python.
- Technology – Tweepy, Numpy, Pandas, Matplotlib.
- Platform- Eclipse.

## EDUCATION

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**M.Tech/M.E.** | [Thapar Institute of Engineering and Technology – Patiala, Punjab](#) **2023**

*Grade/ %: 8.26*

**B.Tech/B.E, IT** | [DIT University– Dehradun, Uttarakhand](#) **2020**

*Grade/ %: 6.61*

**XIth | CBSE** | [S.D. Public School – Muzaffarnagar, Uttar Pradesh](#) **2016**

*Grade/ %: 70*

**Xth | CBSE** | [S.D. Public School – Muzaffarnagar, Uttar Pradesh](#) **2014**

*Grade/ %: 9.00*