

# ABHISHEK MEHRA

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## SUMMARY

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- Results-driven engineer with experience in software development, support, and automation. Skilled in Java, Python, C/C++, and cloud technologies. Proven ability to deliver robust solutions and streamline processes in global teams.
- Areas of Interest:** Software Engineering, Automation, Data Engineering, Cloud Services, Machine Learning

## PROFESSIONAL EXPERIENCE

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**Associate, Nomura Securities, Tokyo, Japan** Oct 2022–Present

- Supported Java-based market data applications, achieving a 90% reduction in monitoring alerts (5,724 to 409).
- Primary contact for market data and index related issues in Japan; created runbooks for corporate actions, disaster recovery, and facilitated knowledge transfer across global teams.
- Developed Python automation tool for access mapping, boosting operational efficiency.

**Software Engineer, Yokogawa Electric, Tokyo, Japan** Oct 2020–Oct 2022

- Led Service CRM rollout for India and UAE, defining integration specs and collaborating with global teams.
- Developed RESTful APIs using Java and Spring Boot for data transfer to Customer Portal; worked closely with project owners and UI developers.
- Utilized SQL Server for data migrations and transformations.

**Data Science Intern, Yokogawa Electric, Tokyo, Japan** May–Jul 2019

- Analyzed IBM Watson Discovery and AWS to create a semantic search for customer Q&A forum.
- Created search architecture by indexing AWS Comprehend NLP metadata to call data in Elasticsearch and performed queries on Kibana.

## EDUCATION

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**Indian Institute of Technology (IIT), Ropar, India** Aug 2016–Jun 2020

*Bachelor of Technology (B.Tech.) in Civil Engineering*

*Department Rank: 4, CGPA: 8.25/10*

**School:** SGGS School, Chandigarh, India (Intermediate, 96%)

**School:** AKSIPS School, Chandigarh, India (Matriculation, CGPA: 10/10)

## PROJECTS AND CERTIFICATIONS

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**AI-powered Article Summarizer (Github | Chrome Extension)** Apr 2025

- Chrome extension to instantly summarize web content using OpenAI GPT. Features article Q&A, selected-text summaries, and smart caching.

**Abstractive Text Summarizer (IIT Ropar) (Project Report)** Apr 2020

- LSTM sequence-to-sequence model for text summarization. Evaluated using ROUGE metric.

**Neural Networks and Deep Learning (Coursera, deeplearning.ai) (Certificate)** May–Jul 2020

- Completed certification in deep learning fundamentals.

**Data Structures and Algorithms (Coursera) (Algorithmic Toolbox) (Data Structures)** May–Jun 2018

- Completed certifications: Algorithmic Toolbox, Data Structures.

## TECHNICAL SKILLS

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**Programming:** Java, Spring Boot, Node.js, Python, C/C++, MySQL, Bash, Git, Linux

**Tools/Services:** AWS, GCP NLP, Elasticsearch, MySQL Workbench, Excel

**Coursework:** Programming, Data Structures, Algorithms, Advanced Calculus, Probability Theory, Machine Learning

**Other:** Football, Film Editing, Team Leadership

## RESPONSIBILITIES AND MISCELLANEOUS

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**Batch Representative:** Liaison between students and professors to ensure effective training by incorporating students' feedback (2018-19)

**Sports:** Central defender, football team at Inter IIT Sports Meet, IIT Madras (2017)

**Cultural:** Editor in film making team at Inter IIT Cultural Meet, IIT Roorkee (2018)