

# Karan Jain

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## OBJECTIVE

Utilize my problem-solving skills and attention to detail to re-engineer and solve complex business problems.

## EDUCATION

**Master of Science**, Computer Science  
San Jose State University, CA

Expected **June 2026**

**Bachelor of Technology**, Computer Science & Engineering  
Vellore Institute of Technology, India  
GPA: 3.55/4.0 (8.66/10.0)

**June 2018**

### Related Coursework:

- Algorithm Design and Analysis, Big Data Mining and Warehousing
- Statistics, Linear Algebra, Machine Learning
- Software Design, OOPS in Python/C/C++

## SKILLS

- **Frontend:** HTML/JSEX, SCSS/CSS, Javascript/Typescript, React/Svelte/Razor
- **Backend:** C#, Python, Postgres, Redis, .NET
- **DevOps:** AWS, GCP, K8s
- **Data Engineering:** Hadoop, Spark, Kafka, SQL
- **Languages:** English, Hindi, Telugu, Spanish, French

## EXPERIENCE

**Senior Consultant**, Ernst & Young LLP, India

**July 2018 - July 2024**

- Automated business processes across various sectors, including Finance, Insurance, Oil & Gas, Telecommunications, and Real Estate, following a comprehensive lifecycle approach. Realized more than 100 Full-Time Equivalency benefits
- Designed and implemented data pipelines for ETL processes and developed data warehouses to support business intelligence and analytics. Reduced manual data handling by 90% across verticals
- Utilized tools like Hadoop, Spark, and SQL to manage and process large datasets efficiently, ensuring data quality and integrity through rigorous testing and validation. Improved data integrity by over 80%
- Collaborated with data scientists to provide clean, structured data for machine learning models, enhancing the overall data ecosystem. Reduced time to market for data analytics by 30%
- Recognized and awarded for outstanding client management, effective mitigation strategies, and innovative solutions to business challenges

## PUBLICATIONS

**A Fuzzy Approach to Spatio-Temporal Analysis for Pedestrian Surveillance**

**Feb 2020**

International Conference on Intelligent Computing and Communication

DOI:#(10.1007/978-981-15-1084-7\_71)

## PROJECTS

**Microsoft Teams PDF Viewer App**

**Oct 2021**

- Developed a node.js app to view and annotate PDFs using PDF.js

**Stock Market Prediction using Back-propagation Algorithm and Machine Learning**

**Sep 2017**

- Developed a Python program that simulates the Back-propagation Algorithm on stock market data; to predict future behavior and fluctuations

**Home Automation with Python, Arduino, and Bluetooth**

**Oct 2016**

- Developed an Arduino-based system that interacts with appliances using Bluetooth, uses OpenCV for image-processing to detect a person, triggers physical switches and sends SMS alerts