

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