

# Karanveer Singh

## Software Engineer

I am a Data Scientist and Software Engineer specializing in predictive modeling, data automation, and scalable data solutions. I build end-to-end pipelines, ensure data integrity, and leverage Apache Airflow for seamless workflow orchestration in the real estate domain.

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📞 8969016585

## WORK EXPERIENCE

### Software Engineer

#### Senecaglobal private limited

12/2021 - Present

Hyderabad

##### Projects

- Working in a real estate consultancy, focusing on predictive analytics to model housing price trends using machine learning and statistical techniques based on various market and economic indicators.
- Developed an automated feature engineering pipeline that ensures dataset consistency by structuring and ordering attributes according to predefined business rules. This enhances model interpretability and aligns data with domain-specific best practices.
- Implemented a robust data integrity mechanism that proactively checks for table and view locks before data ingestion or transformation, minimizing downtime and ensuring seamless data processing for advanced analytics.
- Designed and built an end-to-end data processing pipeline that extracts, transforms, and loads (ETL) structured data while incorporating domain-specific calculations. The processed data serves as a foundation for predictive modeling and supports research teams in deriving actionable insights.
- Leveraging Apache Airflow for workflow orchestration, ensuring automated execution of machine learning pipelines and data processing tasks. This enables efficient model retraining, data validation, and seamless deployment of analytical workflows.

## EDUCATION

### Bachelors of Engineering

#### Kalinga Institute of Industrail Technology

05/2017 - 05/2021

### Intermediate Education(XI & XII)

#### Sri Chaitanya Vidya Niketan

05/2015 - 05/2017

## SKILLS

Programming Language: Python

Machine Learning & Deep Learning: Supervised & Unsupervised Learning (Regression, Classification, Clustering), Model Optimization (Hyperparameter Tuning, Regularization), Neural Networks (CNNs, RNNs, Transformers)

Frameworks: Python (NumPy, Pandas, Scikit-Learn), Deep Learning Frameworks (TensorFlow, PyTorch, Keras)

Tools/databases: AWS, docker, airflow dags, MySQL, PostgreSQL

Familiar with Generative AI, RAG, PEFT, and Agentic AI; currently exploring these advanced AI techniques and their applications in content generation, model optimization, and autonomous systems.

## ACHIEVEMENTS

### Bravo Reconignation Award

*Received this award for building a reliable end-to-end data pipeline on time, bug-free, which helped establish client trust in our solutions.*

### Rise Instant Award

*Received this award for developing a new architecture for market data, enhancing model efficiency and accuracy in price prediction.*

## LANGUAGES

English

Native or Bilingual Proficiency

Hindi

Native or Bilingual Proficiency

## RELEVANT COURSES

Programming for Everybody (Getting Started with Python) by Charles Russell Severance

Machine Learning for Everybody – Full Course - by Kylie Ying

Python for Data Science, AI & Development by - Joseph Santarcangelo