

# Mrunal Sonekar

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8104691694

## Summary

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Data scientist with around 1.4 years of experience working on real business problems. I work with Python, SQL, Pandas, and scikit-learn to clean data, spot trends, and build models that help teams make better decisions. I enjoy turning messy data into clear insights and am always looking to keep learning and improving.

## Skills

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- **Programming:** Python (Pandas, NumPy, scikit-learn), SQL
- **Machine Learning:** Linear and Logistic Regression, Random Forest, Hyperparameter Tuning (GridSearchCV)
- **Deep Learning:** Neural Networks using TensorFlow and Keras
- **Tools & Environments:** Jupyter Notebook, Google Colab, Git
- **Data Visualization:** Power BI, Seaborn, Matplotlib
- **Soft Skills:** Strategic decision-making, cross-functional communication, data-driven problem solving, collaborative project execution

## Education

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**G.H. Raison University, Madhya Pradesh**, Bachelor of Technology (B.Tech),  
Computer Science and Engineering

August 2019 – July 2023

- CGPA: 7.87

## Experience

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1.Designation: **Data Scientist**, SimplyMoveIn Technologies Pvt. Ltd., Bangalore,  
India

August 2023 – December  
2024

- Spearheaded the implementation of a pricing forecast model using Python and scikit-learn, improving prediction accuracy by 18% using location and amenity data.
- Boosted model performance by 15% and reduced prediction errors by 22% through robust data preprocessing, including feature scaling and outlier treatment.
- Applied Linear Regression and Random Forest algorithms with hyperparameter tuning using GridSearchCV to optimize model performance.
- Created interactive data visualizations with Matplotlib to uncover key pricing patterns and inform strategic decisions.
- Improved property booking performance through an 18% RMSE reduction in pricing forecast models.

2.**Data Science Intern**, Rubixe AI Solution  
Internship Certificate

February 2024 – August  
2024

- Executed end-to-end data workflows, including data cleaning, exploratory data analysis (EDA), and machine learning model development using Python (Pandas, NumPy, scikit-learn), resulting in insights that supported strategic decision-making.
- Initiated machine learning algorithms for POC projects, achieving a model accuracy of 85% and optimizing decision-making processes.
- Automated data pipelines, reducing data preparation time by 20%, and ensured high-quality datasets for analysis.
- Collaborated with cross-functional teams to translate business requirements into deployable machine learning solutions, earning recognition for technical proficiency and a solution-driven approach.

## Projects

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### Ficzon IT Solution Client Project

- Conducted statistical analysis and data manipulation on 7,000+ records to generate actionable insights and reports.
- Engineered a lead classification model using SMOTE to address data imbalance, boosting prediction accuracy by 17% and improving lead conversion outcomes.
- Generated visual reports using Python libraries (Matplotlib, Seaborn) to highlight sales performance and regional trends for stakeholder review.

### Rent Prediction

- Engineered a rental price prediction model using Linear Regression and Gradient Boosting with K-Fold cross-validation, achieving an accuracy of 85%.
- Applied advanced preprocessing techniques, including outlier handling, feature scaling, and label encoding, resulting in a 22% error reduction.
- Visualized model performance metrics (RMSE, MAE,  $R^2$ ) using Matplotlib and Seaborn, driving a 12% increase in property bookings.

### ANN for Image Classification

- Built a deep learning model using TensorFlow and Keras to classify Fashion MNIST images, achieving 89% validation accuracy through normalized inputs.
- Tuned hyperparameters, introduced dropout layers, and optimized architecture to improve model generalization and reduce overfitting.
- Designed and fine-tuned an Artificial Neural Network (ANN) pipeline with dropout and normalization strategies to enhance generalization and reduce overfitting in image classification tasks.

## Certifications

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**Certified Data Scientist** IABAC

**Data Science Certification** NASSCOM