

# Swapnil Bandal

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Email [LinkedIn](#) [Github](#) [Portfolio](#)

Passionate recent graduate with a knack for data analysis. Proficient in Python, PowerBI, and SQL, adept at distilling complex data into actionable insights. Strong problem-solving and communication skills foster effective collaboration. Eager to bring fresh perspectives to a data analyst role while maintaining a keen enthusiasm for ongoing learning and growth.

## Education

**Marathwada Mitra Mandal's College of Engineering, Pune**  
Bachelor of Engineering in Computer Engineering (CGPA 8.52)

*July 2019 – July 2023*  
*Pune, Maharashtra*

## Experience

### Hi-Tech Skills

*Machine Learning Electron*

*March 2022 – May 2022*  
*Pune, Maharashtra*

- Developed a caller ID module and created an ER diagram for the project.
- Built a heart disease prediction model using logistic regression, achieving 92% accuracy.
- Implemented the model in Python, utilizing libraries such as scikit-learn and pandas for data manipulation and model training.

## Projects

### Age and Gender Detection: Real-time Video Analysis

- Developed an end-to-end data pipeline for age and gender prediction using deep learning and image processing techniques.
- Achieved an accuracy of 90% in accurately classifying age and gender using deep learning architectures.
- Implemented real-time video analysis for dynamic applications.

### COVID-19 Data Visualization Using Power BI

- Created an interactive Power BI dashboard aggregating COVID-19 data from various sources.
- Transformed complex pandemic data into insightful visualizations, aiding informed decision-making.
- Designed user-friendly features like filters and drill-downs for comprehensive exploration.

### Movie Recommendation System

- Created a personalized movie recommendation system using collaborative filtering techniques.
- Implemented user-based and item-based recommendation approaches for diverse strategies.
- Validated the system's performance, achieving an accuracy of 94%, through metrics like RMSE and precision/recall.
- Enhanced the recommendation system with real-time user feedback integration for continuous improvement.

### Twitter Sentiment Analysis Using NLP

- Developed a sentiment analysis model to analyze public sentiments on Twitter data.
- Achieved an accuracy of 82% in classifying sentiments (positive, negative, neutral) using NLP techniques.
- Gathered and preprocessed a diverse dataset of tweets for training and testing.
- Trained a machine learning model and fine-tuned it using TF-IDF and word embeddings.
- Provided actionable insights by visualizing sentiment trends over time and related factors.

## Skills

Machine Learning, Data Analysis, Data Preprocessing, Data Visualization, Python, SQL, Power BI, NLP, TensorFlow, scikit-learn, Tensorflow, NLTK, Model Evaluation.