

# Sowjanya Bojja Portfolio

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## Experience:

### AI Intern, Mentorness —

Feb 2024 - mar 2024

Developed a dynamic ATS Resume Expert application using Gemini-pro-vision during my internship with Mentorness. Utilizing OpenAI's Generative AI capabilities, it analyzes PDF resumes against job descriptions, offering evaluations on alignment, missing keywords, and candidate suitability. This Streamlit app showcases a versatile portfolio template integrating features like resume parsing, an AI chatbot powered by OpenAI, and interactive elements for comprehensive personal branding, demonstrating proficiency in leveraging diverse technologies for impactful web experiences.

And implemented ML algorithms for Gold price Prediction

Github link:<https://github.com/simplysowj/Mentorness>

### Bharat Intern -Data Science Intern

Jan 2024-Feb 2024

Implemented an SMS spam/ham classifier leveraging machine learning techniques to accurately classify text messages. Additionally, developed a Titanic data classification model to predict survival outcomes using passenger data.

[https://github.com/simplysowj/CatVsDog\\_Classifier-SpamDetector](https://github.com/simplysowj/CatVsDog_Classifier-SpamDetector)

### Cognifyz technologies

Jan 2024- feb 2024

<https://github.com/simplysowj/Gold-Price-Prediction-including-Flask-app>

[https://github.com/simplysowj/Income\\_pred](https://github.com/simplysowj/Income_pred)

Implemented ML algorithm for Income prediction and Gold price Prediction.

### Innomatics Research LABS(3 MONTHS ):

Demonstrated proficiency in Python problem-solving on HackerRank, application development using FLASK and Streamlit, along with expertise in statistics, ML algorithms with hyperparameter tuning, and advanced techniques such as BERT vectorization. Additionally, showcased competence in experiment tracking, model management with MLflow, workflow orchestration with Prefect, NLP, and cloud deployment on platforms like Heroku and GitHub. received a Letter of Recommendation for my performance.

Sample projects:

[https://github.com/simplysowj/Quora\\_duplicate\\_question\\_detector](https://github.com/simplysowj/Quora_duplicate_question_detector)

[https://github.com/simplysowj/Internship\\_july\\_2022](https://github.com/simplysowj/Internship_july_2022)

## SKILLS

### Technical Skills:

- Programming Languages: Python, Java, C
- Web Development: HTML, CSS, JavaScript, Bootstrap
- JavaScript Libraries & Frameworks: Node.js, React.js
- Java Framework: SpringBoot
- Microservices & Containers: Docker
- Big Data Engineering: Kafka, PySpark
- Gen AI Skills: LLM (Large Language Model)
- Data Visualization: Tableau, Excel, Matplotlib, Seaborn
- Web Frameworks: Flask, Streamlit
- Visualization Tools: Excel, Tableau, Matplotlib, Seaborn
- GUI Development: Swing
- Other Technologies: Microservices Architecture
- Tools:
- Version Control: Git
- IDEs: Anaconda, Jupyter notebook/Colab, VS Code, IntelliJ IDEA
- Databases: MySQL, PostgreSQL, Toad, MongoDB Atlas
- Soft Skills:
  - Problem Solving
  - Team Collaboration
  - Communication
  - Time Management

[https://github.com/simplysowj/MLflow\\_prefect\\_orchestration](https://github.com/simplysowj/MLflow_prefect_orchestration)

[https://github.com/simplysowj/ML\\_flow](https://github.com/simplysowj/ML_flow)

## **Internshala Trainings**

NLP Projects:

Auto correct project(Spelling corrector)

- [https://github.com/simplysowj/NLP\\_projects/tree/main/ProjectAutoCorrect-](https://github.com/simplysowj/NLP_projects/tree/main/ProjectAutoCorrect-)

Next Word Generator

- [https://github.com/simplysowj/NLP\\_projects](https://github.com/simplysowj/NLP_projects)

Tableau Project:

Bikehaven project

- <https://github.com/simplysowj/tableau>

Sql Project :

IPL Data Analysis using SQL(Postgre sql) and Data visualization using Excel.

[https://www.linkedin.com/posts/sowjanya-bojja\\_successfully-finished-ipl-data-analysis-using-activity-7130554150039257088-LGf1?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/sowjanya-bojja_successfully-finished-ipl-data-analysis-using-activity-7130554150039257088-LGf1?utm_source=share&utm_medium=member_desktop)

Advanced Excel project:

<https://github.com/simplysowj/fitbit>

Analysis of Fitbit fitness tracker data to deliver marketing and business solutions to WeFit and its subsidiaries

## **Industry Experience:**

Plsql Developer Tools: TOAD 7.6.0.11, PL/SQL Developer, Forms 6i, Reports 6i

Company TCS

Client Electronic Arts-India Location Bangalore, India (2010 to 2014) (Nov 2010 May2014)

Client Tata TeleServices Limited - India (2008 to 2010) Mar 2008-Oct 2010

## **EDUCATION**

MSC in data science

Chandigarh University

## **Subjects:**

- Python Programming
- Calculus and Linear Algebra for Data Scientists
- Applied Probability and Statistics
- Data Analysis and Visualization
- Communication and Soft Skills
- Machine Learning
- SQL Programming
- Advanced Machine Learning
- Advanced Database Management
- Deep Learning
- Optimization
- Natural Language Processing

Machine Learning & Deep Learning:

(ML, DL), NLP Libraries: NumPy, Pandas, Scikit-learn, NLTK, TensorFlow, PyTorch

Techniques: Data Exploration & Analysis, Data Modelling, Statistics and Probability,

Linear Regression, Gradient Descent, Logistic Regression,

Regularization, SVM, KNN,

Decision Trees, Random

Forest, Ensemble Techniques,

Bagging & Boosting,

Cross-Validation, Cluster

Analysis, Hyperparameter

Tuning, Experiment Tracking

and Model Management using

MLflow, MLOPS NLP

Techniques: Tokenization, Bag

of words, Stemming,

Lemmatization, POS Tagging,

TF-IDF, BERT, Word2Vec,

GloVe Deep Learning: Neural

Network Architectures (CNN,

RNN, LSTM), Computer Vision

(Image Classification, Object

Detection, Image

Segmentation), NLP Tasks

(Sentiment Analysis, Text

Classification, Language

Modeling, Generative

Adversarial Networks),

Optimization Techniques

(Gradient Descent)

## **Certifications**

Data Science Certification conducted by Innomatics Research labs

[https://www.linkedin.com/posts/sowjanya-bojja\\_course-completion-certification-activity-6995546013616726016-CQ9P?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/sowjanya-bojja_course-completion-certification-activity-6995546013616726016-CQ9P?utm_source=share&utm_medium=member_desktop)

Data Analysis using Advanced Excel Certification

[https://www.linkedin.com/posts/sowjanya-bojja\\_successfully-completed-the-exc](https://www.linkedin.com/posts/sowjanya-bojja_successfully-completed-the-exc)

- Java Programming
- Data Engineering
- Data Structures and Algorithms
- Data Mining and Warehousing
- Web Technologies
- Applied Business Analytics
- Cloud Native Development

#### Projects:

- Analyzed sales data using Databricks, PySpark, and Matplotlib for insightful trends and patterns in sales performance. Utilized PySpark's distributed computing capabilities to efficiently process large datasets, enabling comprehensive exploratory data analysis and visualization.
- Developed a movie review application using MongoDB, Java, Spring Boot, and React, featuring a loosely coupled architecture for independent evolution of client and server code, leveraging microservices for efficient business function handling. Spring Boot was chosen for its rapid development capabilities in the microservices landscape.

**Major Project:** Developed an interactive chatbot capable of generating captions for images and audio. Utilized advanced AI techniques, including image captioning(using Deep learning and NLP) and audio generation with Gen AI, to enhance user experience.

**Minor Project :** Implemented a fraud detection system using big data concepts such as Kafka, PySpark, and MySQL with Machine learning algorithms. Developed a user-friendly interface using Streamlit and incorporated Gen AI for front-end enhancement.

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#### SQL:

[https://www.linkedin.com/posts/sowjanya-bojja\\_successfully-completed-the-sql-training-from-activity-7130550139491909632-1Isn?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/sowjanya-bojja_successfully-completed-the-sql-training-from-activity-7130550139491909632-1Isn?utm_source=share&utm_medium=member_desktop)

#### Tableau:

[https://www.linkedin.com/posts/sowjanya-bojja\\_tableau-activity-7146271915442151424-l9XI?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/sowjanya-bojja_tableau-activity-7146271915442151424-l9XI?utm_source=share&utm_medium=member_desktop)

#### ML with Python:

[https://www.linkedin.com/posts/sowjanya-bojja\\_internshala-trainings-activity-7155298154098094080-VYRg?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/sowjanya-bojja_internshala-trainings-activity-7155298154098094080-VYRg?utm_source=share&utm_medium=member_desktop)