

# Sowjanya Bojja

Phone: 6692974674

Email: simplysowj@gmail.com

LinkedIn: [linkedin.com/in/sowjanya-bojja](https://www.linkedin.com/in/sowjanya-bojja)

GitHub: [github.com/simplysowj](https://github.com/simplysowj)

Academic Papers: <https://medium.com/@simplysowj>

Portfolio: <https://personalbotpy-latestsowji.streamlit.app/>

Personal Website: [https://simplysowj.github.io/new\\_react\\_portfolio\\_final/](https://simplysowj.github.io/new_react_portfolio_final/)

---

## Summary

Expertise in AI and machine learning models, data analysis, pattern recognition, and enhancing algorithm efficiency. Proficient in Python, machine learning algorithms, and data visualization tools. Effective collaborator and creative problem solver.

## Skills

**Programming:** Python, Java, C

**Tools:** Git, GitLab, CLI, JupyterLab, VS Code, Toad, SQL Developer, IntelliJ IDEA, Anaconda

**Database:** SQL (PostgreSQL, MySQL, Oracle), NoSQL (MongoDB)

**OS:** Linux, Windows, Mac OS

**Cloud:** Google Colab

**Big Data:** Kafka, PySpark

**Web Frameworks:** Flask, Streamlit, Java Swing, Django

**Data Visualization:** Tableau, MS Excel, Matplotlib, Seaborn, PowerBI

**Other:** Microservices Architecture, Docker, ReactJS, NodeJS, Spring Boot, Large Language Models (LLM)

### Machine Learning & Deep Learning:

- **Libraries:** NumPy, Pandas, Scikit-learn, NLTK, TensorFlow, PyTorch, (Tensorflow, Keras, Open-CV, Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, BeautifulSoup, Scrapy), NLTK, TensorFlow, PyTorch
- **Techniques:** Data Exploration & Analysis, Data Modeling, 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).

**Soft Skills:** Problem Solving, Team Collaboration, Communication, Time Management

## Education

**Master of Science (MSc) in Data Science** Chandigarh University, India

July 2022 - August 2024

Relevant Coursework: Python Programming, Calculus and Linear Algebra, 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, Web Technologies, Cloud Native Development, Java Programming, Data Structures and algorithms, NLP, Applied Business Analytics, Data Mining and Data warehousing, data Engineering.

**Bachelor of Technology (B. Tech) in Electronics and Communications** JNTU, India

2002 - 2006

## Certifications

- Certification in Data Science with IBM Registered Business Partner. 2020 - 2022
- Data Visualization with Tableau, Power BI, Advanced MS Excel 2022 - 2023
- Machine Learning with Python, NLP 2022 - 2023

## Experience

**Position:** AI Intern

**Company:** Mentorness

**Date:** Feb 2024 - April 2024

- Developed ATS Resume Expert application using Generative AI.

**Position :** Data Science Intern

**Company :** Bharat Intern

**Date :** Dec 2024 - Feb 2024

- Implemented SMS spam/ham classifier.
- Developed Titanic data classification model.

**Position :** ML Intern

**Company :** Cognifyz Technologies

**Date :** Jan 2024 - Mar 2024

- Implemented ML algorithms for income and gold price prediction.

**Position :** Student Intern

**Company :** Internshala Trainings

**Date :** Jan 2023 - Dec 2023

- NLP Projects: Auto-correct, Next Word Generator.
- Tableau Project: Bikehaven.
- SQL Project: IPL Data Analysis.

**Position :** Data Science Intern

**Company:** Innomatics Research Labs

**Date :** July 2022 - Nov 2022

Career Break ( to take care of my family ) From 2014 to 2021

**Position : Systems Engineer Employer**

**Company :** Tata Consultancy Services

**Date :** Jan 2008 - Mar 2014

- Tools: TOAD, PL/SQL Developer, Forms, Reports.

## Sample Projects:

### ATS Resume Expert Application

Developed using OpenAI's Generative AI. Github:[ATS](#)

### Fraud Detection Using Big Data

Implemented with Kafka and PySpark.Github : [Fraud Detection](#)

### Sentiment Analysis and EDA with Databricks

Classified and analyzed sentiment in text data.Github links : [GitHub](#) and [sentiment](#)

### Image Captioning with OCR and GenAI

Integrated OCR and Generative AI for generating image captions Github link : [.image](#)

### Microservices with Spring Boot

Created scalable microservices architecture with RESTful APIs. GitHub Link: [Microservices](#)

**Quora Duplicate Question Detector** end to end project with MLOPs Github link: [MLops](#)

Other Projects: Auto correct project(Spelling corrector) | Next Word Generator ,Tableau Project: Bike haven project [Tableau project link](#) , IPL Data Analysis using SQL(Postgresql) and Data visualization using Excel , Data Visualization with Advanced Excel Analysis of Fitbit fitness tracker data to deliver marketing and business solutions to WeFit and its subsidiaries