

BAVYA SREE C

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EDUCATION

Bharathiar University, Coimbatore, India

Master of Science – Data Science ; 84%

2023 - 2025

PSGR Krishnammal College for Women, Coimbatore, India

Bachelor of Science – Mathematics ; 88%

2020 - 2023

SKILLS SUMMARY

- **Languages:** Python, SQL, MATLAB
 - **Framework:** Pandas, Numpy, Scikit-Learn, Matplotlib, Tensorflow
 - **Tools:** PostgreSQL, MySQL, SPSS, Neo4j
 - **Platforms:** Jupyter Notebook, Visual Studio Code
 - **Soft Skills:** People Management, Excellent communication
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PROJECTS

Spotify ETL Pipeline Project

- Built an end-to-end ETL pipeline to extract track data from Spotify API and load it into a MySQL database.
- Parsed and transformed metadata (track name, artist, album, duration, popularity) using regex and data processing.
- Executed analytical SQL queries to rank artists, compute average popularity, and categorize tracks by popularity.
- Automated data ingestion from a list of URLs with exception handling and dynamic insertion into a structured schema.

Thorax Disease Detection Using Deep Learning Models

- Built a deep learning model using NIH ChestX-ray data for automated pulmonary disease classification.
- Designed and compared CNN and hybrid models (MobileNet/U-Net + Attention + Transformer) for improved accuracy and efficiency.
- Used Grad-CAM as a preprocessing step to convert images into heatmaps overlaid images, enhancing both model training and interpretability.

Diabetes Analysis And Prediction Using Python

- Conducted exploratory data analysis (EDA) on a dataset of over 750 records, identifying key correlations between features like glucose, insulin, and BMI using correlation heatmaps and pair plots.
 - Developed a Random Forest and Decision Tree classifier model achieving accuracy nearly 98% on test data, providing reliable predictions for diabetes diagnosis using Python (scikit-learn, pandas, NumPy).
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CERTIFICATES

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| ○ Data Analytics with Python – NPTEL | Issued Apr 2024 |
| ○ Machine Learning for Data Science Projects - IBMSkillBuilds | Issued Jun 2024 |
| ○ Getting Started with Enterprise-grade AI - IBMSkillBuilds | Issued Jun 2024 |
| ○ Journey to Cloud: Envisioning Your Solution – IBMSkillBuilds | Issued Jun 2024 |
| ○ Python for Data Science AI & Development - IBM | Issued Sep 2022 |
| ○ Data Science Methodology – IBM | Issued Aug 2022 |