Bhuvaneshwari Balaji

bhuvaneshwaribalaji06@gmail.com | linkedin.com/in/bhuvaneshwari-balaji-79972726a |
https://060205b.github.io/Bhuvaneshwari_Balaji/ | https://github.com/060205b | +91 7200154712

An undergraduate with hands-on experience in creating **predictive models**, building **data models**, and developing **dashboards**. Proficient in **Python, SQL**, and **machine learning techniques**, with expertise in data visualization tools (Tableau, Power BI) and popular machine learning libraries. Committed to transforming data into actionable insights to support data-driven decisions.

EDUCATION

Dr.M.G.R Educational and Research Institute, Chennai, Tamil Nadu
Bachelor of Computer Application, Artificial Intelligence and Data Science
September 2022 – June 2025 | **CGPA: 9.4**

Relevant Courses(IBM - Led): Python Programming, Machine Learning, Machine Learning with Watson Studio, Data Science, Data Analysis, Artificial Intelligence, Data Visualization, Big Data Engineering, Cloud Computing, Databases (SQL, NoSQL)

SKILLS

Programming Languages: Python, R, SQL
Machine Learning: Classification, Regression, Clustering , Principal Component Analysis (PCA), Q-Learning
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Folium
Databases: MongoDB, MySQL
Frameworks & Tools: TensorFlow, Keras, PyTorch, Scikit-learn, Flask, Django
Version control: Git, GitHub,
Other Tools: Excel

ACADEMIC PROJECTS

Signature Detection Using CNN: Tackled the challenge of verifying genuine vs. forged signatures, essential for secure authentication. Developed a CNN-based model that achieved **94%** accuracy, providing a reliable and scalable signature verification solution.
Tools & Techniques: TensorFlow/Keras, OpenCV, Python

YouTube Comment Classifier: Addressed the need to categorize YouTube comments for content moderation and user insights. Built a sentiment analysis model with **85%** accuracy to classify comments as positive, neutral, or negative, automating sentiment categorization effectively.
Tools & Techniques: Google API Client, VaderSentiment, Python

Traffic Accident Severity Prediction: Aimed to predict accident severity levels to enhance response readiness and public safety. Created a model with **88%** accuracy, deployed via a Flask web app, allowing real-time severity predictions through a user-friendly interface
Tools & Techniques: Python, Flask, Scikit-learn, Pandas, NumPy.

Multi-Layered Web Page: Developed an interactive web page to improve user engagement through real-time features and smooth interactivity. Leveraged Node.js for backend functionality, ensuring fast, responsive handling of user interactions.
Tools & Techniques: HTML, CSS, JavaScript, Node.js

WORK EXPERIENCE

Cognifyz Technologies — Data Science Intern Internship Certificate
July 2024 – August 2024

- Analyzed real-time datasets and developed predictive models, improving forecasting accuracy by **15%** for trend-based decision-making.
- Applied advanced machine learning techniques, enhancing model precision to an accuracy level of **92%**.
- Built dynamic data visualizations and dashboards using Folium for geospatial mapping and tools like Matplotlib, Seaborn, Tableau, and Power BI, increasing insight accessibility and user engagement by **30%**.

CERTIFICATIONS

Great Learning: Data Science with Python, Data Visualization using Tableau, Statistical Analysis
IBM: Machine Learning using Watson, Introduction to Python
Udemy: The Complete Data Science Course, Machine Learning A-Z

JOB SIMULATION

BCG Data Science Job Simulation on Forage - September 2024 Certificate