Bhuvaneshwari Balaji

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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

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%**.

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

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