Balaji Patil **22BCE10366**
Computer Science & Engineering **B.Tech.**
VIT Bhopal University **Gender: Male**
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Examination	University	Institute	Year	CGPA/%
Graduation	VIT Bhopal	VIT Bhopal	2026	8.25
Intermediate	CBSE	APS Dighi Pune	2021	91.40%
Matriculation	CBSE	APS Dighi Pune	2019	86.80%

PROFESINAL SUMMARY

Results-driven Data Science and Software Engineering student with expertise in machine learning, deep learning, NLP, and full-stack development. Passionate about leveraging data science techniques to drive meaningful insights and innovative solutions. Skilled in Python, C++, Java, and data visualization tools like Tableau.

KEY PROJECTS

Brain Tumor Detection | Self Project **(APR 2024 – JUNE 2024)**

- Designed and implemented a tumor detection system leveraging over 2,000 MRI images to identify brain tumors.
- Achieved an accuracy rate of **89%** using a **Convolutional Neural Network (CNN)**, showcasing high precision and effectiveness.
- Built an interactive web interface using **HTML**, **CSS**, and **JavaScript**, integrated with a backend powered by **Python** and **Flask**.
- Utilized technologies like **OpenCV**, **TensorFlow**, and **Pandas** for image processing, model training, and data analysis.

Sales Dashboard | Self Project **(OCT 2024 – NOV 2024)**

- Designed and developed two dynamic dashboards in Tableau —**Sales Dashboard** and **Customer Dashboard**— to empower stakeholders, including sales managers and executives, with actionable insights.
- The **Sales Dashboard** provided a comprehensive analysis of key metrics, facilitating data-driven decision-making.
- The **Customer Dashboard** offered an overview of customer data, trends, and behaviors, featuring charts and graphs such as KPI summaries for metrics like **Total Customers**, **Sales per Customer**, and **Total Orders**, with year-over-year comparisons.

Potato diseases analysis in Python| Self Project **(NOV 2024 – DEC 2024)**

- Trained a **deep learning model** on three distinct datasets comprising images of healthy potatoes, early blight-affected crops, and late blight-affected crops to assist farmers in early disease detection.
- Utilized **80% of the data for training** and **20% for testing and validation**, achieving a high accuracy of **97.4%** with a minimal loss of **0.0587** on the test set.
- Technologies used: **Python**, **Flask**, **CNN**, **OpenCV**, **TensorFlow**, and **Pandas**.

TECHNICAL SKILLS

Programming	C++, Python, Java
Data Science	Natural Language Processing, Deep Learning, Tableau, Scikit-learn, MySQL, TensorFlow, Pandas, BeautifulSoup
Web Development	HTML, CSS, JavaScript, ReactJS, Flask
Tools	Tableau, SolidWorks

ONLINE COURSES

Google Data Analytics Professional Certificate | Coursera

- Completed a comprehensive program that enhanced my expertise in **data cleaning**, **data visualization**, **SQL**, **R programming**, and **advanced analytics techniques**.
- Gained practical skills to address real-world data challenges and derive meaningful insights to support **data-driven decision-making**.

Machine Learning | Skill Up

- Gained knowledge of supervised and unsupervised learning, including algorithms like regression, classification, clustering, and dimensionality reduction.
- Learned to preprocess data, train machine learning models, evaluate their performance using metrics like accuracy, precision, recall, and F1-score.
- Developed skills in selecting and engineering features to improve model performance.
- Gained hands-on experience with Python libraries such as Scikit-learn, Pandas, NumPy, and Matplotlib for building and visualizing machine learning models.

Machine Learning Algorithms | Great Learning

- Gained expertise in machine learning algorithms such as Linear Regression, Decision Trees, Random Forests, SVM, and K-Means.
- Applied algorithms to real-world problems, including predictive modeling, classification, and clustering tasks.
- Learned hyperparameter tuning, feature engineering, and dimensionality reduction techniques (e.g., PCA) to improve model performance.

CO-CURRICULAR

- **C++ Proficiency**: Earned a **5-star rating** in C++ on **HackerRank**, demonstrating advanced programming skills.
- **Problem-Solving Expertise**: Solved over **200 problems** on **LeetCode**, covering diverse topics in **Data Structures and Algorithms**, showcasing strong analytical and coding abilities.
- **Video Editing**: Edited and synchronized audio with video for over **20 projects**, enhancing video production quality and mastering professional editing techniques.