

Devraj Bavan

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[LinkedIn](#) [GitHub](#)

OBJECTIVE

Detail-oriented data scientist with strong expertise in Python, data analysis, and machine learning, seeking to contribute to a dynamic team in a reputable organization. Committed to continuous learning and professional growth.

INTERNSHIP EXPERIENCE

AI/ML Intern (ACTS CDAC, Hyderabad)

March 2023 – April 2024

- ❖ Collaborated with AI/ML experts on real-time projects, optimizing methodologies for improved performance and efficiency.
- ❖ Designed and tuned CNN and RNN Neural Network Architectures, creating novel solutions that enhanced model accuracy by 25%, meeting stringent project specifications and client requirements.
- ❖ Collaborated with AI/ML experts on real-time projects, evaluating methodologies that improved project success rate by 20% and reduced development time by 15% across 5 major initiatives.

PERSONAL PROJECTS

- ❖ **Project Title:** [Wasserstoff RAG WordPress Plugin](#)
- ❖ **Description:** Developed a WordPress plugin integrating retrieval-augmented generation (RAG) for dynamic content creation.
- ❖ **Technologies Used:** Python, TensorFlow, PyTorch, Flask, Django, HTML, CSS, JavaScript.
- ❖ **Key Contributions:** Designed plugin architecture, implemented machine learning models, created RESTful APIs, and ensured high performance through extensive testing and optimization.

INTERNSHIP PROJECTS

AI Based Cat and Dog Audio Classifier, CDAC, Hyderabad

- ❖ **Technologies Used:** Deep Learning with Python, TensorFlow, Librosa
- ❖ Gathered audio data from Kaggle and YouTube, processed for analysis.
- ❖ Developed an AI model for audio classification, achieving 95% accuracy in distinguishing between cat and dog sounds.

AI Based Wolf and Dog Image Classifier, CDAC, Hyderabad

- ❖ **Technologies Used:** Deep Learning with Python, TensorFlow, Librosa
- ❖ Compiled 15,000 images of dogs and wolves after extensive search.
- ❖ Built a deep learning binary classifier to discern between dog and wolf images, tackling the complexity arising from their shared family traits.

ACADEMIC PROJECTS

Project Title: Emotional Tunes

- ❖ **For:** Major Project – II (IES Institute)
- ❖ **Technologies Used:** Machine Learning with Python, OpenCV
- ❖ **Dataset Collection:** Generated facial expression data for training.
- ❖ **Description:** Developed a facial expression analysis model using OpenCV and Python, achieving an 85% accuracy in emotion prediction, which then recommended appropriate songs.

Project Title: Face Mask Detection

- ❖ **For:** Major Project – I (IES Institute)
- ❖ **Technologies Used:** Machine Learning with Python, OpenCV
- ❖ **Dataset Collection:** Compiled masked and unmasked images from Data Flair website.
- ❖ **Description:** Implemented a machine learning system to detect whether individuals in a camera feed are wearing masks, issuing an alert sound if a mask is not detected.

EDUCATION

B.Tech in Computer Science and Technology, IES Institute of Technology and Management, **2023**

12th Grade, PCM, St. Today Co. Ed. High School, **2019**.

10th Grade, St. Today Co. Ed. High School, **2017**.

IT SKILLS

- ❖ Programming Languages: Python
- ❖ Frameworks and Libraries: TensorFlow, PyTorch, OpenCV, Flask, Django
- ❖ Web Development: HTML, CSS
- ❖ Databases: SQLite
- ❖ Tools: Librosa, Matplotlib, Pandas, Microsoft Office, Bootstrap
- ❖ Operating Systems: Windows, Ubuntu

SOFT SKILLS

- ❖ Team Management and Leadership
- ❖ Problem Solving and Critical Thinking
- ❖ Adaptability and Quick Learning
- ❖ Excellent Communication Skills, Logical and Analytical Thinking

CERTIFICATE

- ❖ [Work based learning internship](#) Level – 1 Certificate (20/03/2023-19/09/2023) – Final presentation Score: 89%
- ❖ [Python Certification](#) from IIT Bombay – Certificate Examination Score: 78%
- ❖ [Neural Networks and Deep Learning](#) from Coursera – Assignment Score: 100%
- ❖ [Prompt Engineering](#) for ChatGPT from Coursera – Assignment Score: 100%
- ❖ [Employability Skills](#) under Connect with Work program organized by Rubicon

EXTRA CURRICULAR ACTIVITY

- ❖ Bronze medalist, State Level Boxing Championship
- ❖ First Prize winner in a Banking quiz during High School.
- ❖ Recognized as the Most Disciplined Student of the entire B.Tech Batch of 2019-23 at IES campus.
- ❖ Led a team of four to organize and execute a Project Exhibition at Infuriya 2k22 in IES Campus.
- ❖ Volunteered and managed a participating team in the Smart India Hackathon 2k22.
- ❖ Led a dance performance during Fresher 2020 in the first year of college.

LANGUAGES

- ❖ English: Fluent
- ❖ Hindi: Native
- ❖ Telugu: Beginner