

MADIVALAPPA BANI

Mckinney, Texas | (414)-554-0301 | msbani19@gmail.com | [LinkedIn](#) - madivalappa-bani | [GitHub](#) - msbani | [Portfolio Website](#)

SUMMARY:

- Proficient in multiple programming languages with hands-on experience in developing and deploying full-stack, AI, and cloud-based applications using **Python, Golang, Django, Flask, React, and Node.js**.
- Proficient in building **responsive and interactive user interfaces** with **HTML, CSS, JavaScript, React, and jQuery**, ensuring optimal user experience across devices.
- Extensive experience in **machine learning, deep learning, and computer vision**, leveraging tools like **TensorFlow, PyTorch, OpenCV, and Detectron2** for model training, object detection, and image classification.
- Strong background in **database design and management**, working with **MySQL, MongoDB, and DynamoDB** for secure and efficient data storage.
- Developed multiple end-to-end projects including **Implementation of Image Classifier, Movie Streaming App, Marketplace App, and Weather Prediction App**, demonstrating full lifecycle expertise from design to deployment.

PERSONAL & TECHNICAL PROJECTS:

Implementation of Image Classifier: ([GitHub](#))

- Developed a **machine learning model** using **PyTorch** to classify animal images into three distinct categories Panda, Cat, and Dog. The model leverages **deep learning techniques** for feature extraction and image classification, providing accurate predictions across multiple image inputs. The **dataset** comprises a total of **2,400 labeled images**.
- Designed & trained a custom DL model from scratch, experimenting with hyperparameters and layers to optimize performance. Evaluated model performance using accuracy metrics & confusion matrices, achieving **≥80% accuracy** on the test set.

Magic Stream Movies web application: ([GitHub](#))

- Developed a full-stack movie streaming platform providing movie streaming and recommendations, featuring user **authentication**, personalized experiences, and **AI-enhanced** review ranking.
- The project leverages a **React** frontend (Vite + React-Bootstrap UI) and a **Go** backend (Gin + MongoDB), with robust **JWT-based authentication** and **OpenAI**-powered review **sentiment analysis**.

Marketplace web application: ([GitHub](#))

- Marketplace is a **Django**-based web app that allows users to list items for sale, browse categories, and engage in conversations related to items. It features user **authentication**, item management, **messaging**, and a dashboard to track user listings.

Weather Prediction web application: ([GitHub](#))

- Developed a web application to get real time weather conditions for any city using the **OpenWeatherMap** API. This web app is built with **Flask** and served using **Waitress**. It is deployed to server using **Render**.

Multiple Mini Projects (Python): ([GitHub](#))

- Developed several Python mini projects including Stopwatch, Digital Clock, Weather App, Alarm Clock, Hangman Game, Slot Machine, Encryption Tool, Banking Program, Dice Roller, and more.
- AI/ML Projects including Object Detection and Tracking, Document Scanner, Skin Smoothing, Sunglass and Instagram Filters, Blemish Removal, and Chroma Keying.

TECHNICAL SKILLS:

Languages: Python, Go(Golang), C#, Shell Scripting

Web Technologies: RESTful APIs, HTML, CSS, JavaScript, Tailwind CSS, jQuery, Figma

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, SQL Server

Cloud Platforms: AWS (EC2, Lambda, API Gateway, S3, DynamoDB, CloudWatch), Vercel, Render

Frameworks & Libraries: Django, Flask, NumPy, Pandas, TensorFlow, PyTorch, OpenCV, Detectron2

IDEs and Tools: Visual Studio, VS Code, PyCharm, Postman, Kaggle, Google Colab

PROFESSIONAL EXPERIENCE:

UI/UX Designer Intern, Sentari AI | New York

Aug 2025 – Sep 2025

- Assisted in designing mobile and web user interfaces aligned with product goals.
- Created wireframes, mockups, and interactive prototypes using modern design tools like Figma.

Software Developer, Tec Intuition Inc | Texas

Oct 2025 – Present

- Design, develop, test, and deploy **Python-based applications**, APIs, and automation scripts. Integrate with **databases** (PostgreSQL, MySQL, MongoDB) using ORM or raw SQL.
- Working with **Django, Flask, or FastAPI** frameworks to build and maintain server-side logic.

EDUCATION:

Masters of Science, Computer Science

University of Bridgeport, CT

GPA-3.82/4

May 2025