BHARATH. M

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SUMMARY

Motivated Python and AI/ML Developer with strong hands-on experience in building intelligent solutions across computer vision, natural language processing, and web integration. Proficient in deploying scalable applications and integrating LLMs for real-world use cases. Passionate about learning, solving complex problems, and driving innovation in AI technologies.

SKILLS

- Languages: Python (Intermediate), Java (Entry-level), C (Entry-level)
- AI/ML: Natural Language Processing (NLP), Scikit-learn, OpenCV, TensorFlow, MediaPipe, OCR (PyTesseract), Generative AI (Gemini API, Llama, Mistral), Prompt Engineering
- Web Development (Entry-level): Flask, HTML, CSS, Frontend-Backend Integration
- Database Management: MySQL
- Tools: Git/GitHub, Jupyter Notebook, VS code, LLM hosting using Ollama application
- Soft Skills: Communication, Collaboration, Critical Thinking, Structured Problem Solving

EDUCATION

Bachelor of Engineering (B.E.) - Information Science and Engineering *(2021-2025)*

Maharaja Institute of Technology Mysuru, Karnataka, India

EXPERIENCE

Intern – AI/ML Developer

WizzyBox Pvt Ltd *(February 2025 – Present)*

- Developed AI/ML solutions using **NLP, TensorFlow, PyTorch, and OpenCV with LLM integration**.
- **Reduced response time by 53%, reducing latency from 90s to 43s by optimizing Mistral LLM integration while maintaining accuracy.**
- Built key components of an **AI interview bot with a team of 3,** focusing on **resume extraction and ATS-aligned skill matching.**

Intern – Frontend Developer

Microtree Tech Solutions Pvt Ltd (October 2023 - December 2023)

- Developed and delivered multiple responsive web pages using **HTML and CSS, achieving 98% client satisfaction.**
- Collaborated with backend teams to ensure seamless API integration and front-end functionality.

PROJECTS

Touchless Drag-and-Drop Interface

- Developed a camera-based touchless interface allowing users to manipulate on-screen objects using hand gestures.

- **Technologies:** ***Python, OpenCV, MediaPipe, HandTrackingModule***
- **Key Features:** Real-time hand tracking, pinch gesture recognition, intuitive user interface, overlay PNG visualization.

Resume Analysis & ATS Optimization System

- Built a comprehensive system for resume analysis utilizing AI API key (Gemini AI) to provide ATS compatibility scores, skills matching, and personalized interview question generation for job applications.
- **Technologies:** ***Python, Flask, Google Gemini API, PyPDF2, OCR (Tesseract)***
- **Key Features:** Multi-format document parsing (PDF, DOCX, images), AI-powered resume analysis, session management, interview question generation, detailed feedback system

Resume Parsing with LLM Integration

- Created a robust application for extracting structured information from resume documents using locally-hosted language models.
- **Technologies:** ***Python, Flask, Generative AI (Gemini/Llama/Mistral), PyPDF2/DocX/Tesseract***
- **Key Features:** JSON structured output, multi-model support, structured error handling, API response formatting

Resume Paraphrasing Application

- Designed a specialized microservice for resume text enhancement with multiple paraphrasing styles. Implemented parallel processing, caching mechanisms, and fallback strategies for reliable operation.
- **Technologies:** ***Python, Flask, Ollama API, Rate Limiting***
- **Key Features:** Concurrent processing, advanced caching, section detection, context-aware prompting, health monitoring

Grayscale Image Colorization Tool

- Developed an application that automatically adds realistic color to black and white images using deep learning. Leveraged a pre-trained neural network model to predict color channels based on luminance information.
- **Technologies:** ***Python, OpenCV, NumPy, Caffe Model Integration***
- **Key Features:** LAB color space transformation, neural network implementation, image preprocessing, side-by-side visualization

Ping Pong Game with Retro Aesthetics

- Created a fully-featured ping pong game with 90s-inspired visual aesthetics featuring both single and multiplayer modes. Implemented physics-based ball movement.
- **Technologies:** ***Python, Pygame***
- **Key Features:** Computer AI for single player mode with difficulty scaling, and retro visual effects.

CERTIFICATIONS

- Technical Workshop on Data Science, E-CELL IIT Madras | *March 2024*
- Communication & Soft Skills, Overview of AI, NPTEL | *October 2023*
- Data Analysis Workshop using R, Ethno-tech Academic Solutions | *August 2023*