Tanmay Bhagate

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# Profile Summary

Recent BSC-IT graduate with a strong interest in AI/ML and software development. Skilled in Python, TensorFlow, and SQL, with hands-on experience in building real-time applications using deep learning and NLP. Quick learner and team player, eager to contribute to impactful projects.

# Experience

# **Planet cast Media Services Limited Mumba, India**

# Broadcasting Operations Executive **May 2024 - Dec 2024**

# Oversaw DR (Disaster Recovery) playout operations for Viacom and Star channels, ensuring 24/7 broadcast continuity.

# Utilized tools like Cloud X MAM, Media X, GFX Tool, and Subtitle Converter for playlist management, media validation, and quality checks.

# Generated missing media reports, sent Asrun Logs to clients, and coordinated with schedulers to resolve playout gaps.

# Managed Cricbuzz live match playlists, including slates, promos, and breaks, while executing real-time switching during broadcasts based on director cues.

# Maintained high-quality A/V standards and ensured seamless on-air delivery through continuous monitoring.

# Projects

# **Smart Job Role Matching System**

# **Technologies: Python, Flask, SpaCy, Pandas, HTML/CSS, NLP, File Handling**

# Built an intelligent job role recommendation system that analyzes user resumes or skill inputs to suggest top-matching IT job roles based on skill relevance.

# Utilized SpaCy for keyword extraction and natural language processing to identify and lemmatize core skills from uploaded .pdf, .docx, and .txt files or manually entered skills.

# Matched extracted user skills against a curated database of job descriptions across different domains displaying top 10 matches with scores.

# Enhanced UI with a responsive, job-themed interface showing match score, matched skills, and missing skills for each job role, improving clarity and usability.

# **Real-Time Sign Language Detection Using Deep Learning**

# **Technologies: Python, TensorFlow, OpenCV, CNN, Keras, Image Processing**

# Built a real-time sign detection system using Convolutional Neural Networks (CNN) to recognize American Sign Language (ASL) gestures from webcam video feed.

# Trained a custom CNN on a labeled ASL dataset (~87,000+ images across 29 classes) with extensive data augmentation and dropout regularization to boost model performance and prevent overfitting.

# Integrated OpenCV to capture and process live video frames, enabling the model to predict and display the detected sign on screen in real time.

# Built an interactive web application using Streamlit, allowing users to view live predictions, reference an ASL gesture guide, and construct full words dynamically from predicted signs.

# Skills

# **Languages:** HTML, CSS, Python, SQL, JavaScript, Java

# **Frameworks**: Flask, FastAPI, TensorFlow

# **Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Keras

# **Analytical Tools**: Power BI, Excel, Power Query

# **Machine Learning & Deep Learning:** Models training, Neural networks, Feature Engineering

# **Others**: Operating Systems, Computer Networks, Linux.

# Education

**SIES College Of Arts, Science & Commerce: Sion West Aug 2021 - Mar 2024**

Bachelor Of Science in Information Technology ***CGPA: 7.80/10***

# Certifications

# Python: Beginner to advanced for Data Professionals

# Hacker Rank: SQL(Intermediate)

# Great Learning: Excel for Intermediate Level