Prathamesh Chikkali

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SUMMARY

Specialized AI & Machine Learning student with strong foundations in Deep Learning, NLP, and Computer Vision. Experienced in designing end-to-end ML pipelines and leveraging NVIDIA CUDA-enabled environments for high-performance model training. Proven ability to transform complex datasets into actionable insights. CGPA: 8.65 — Level 4 CodeChef.

TECHNICAL SKILLS

Machine Learning & DL: TensorFlow, Keras, PyTorch, Scikit-Learn, MediaPipe, OpenCV
Data Science & Engineering: Pandas, NumPy, SQL (PostgreSQL/MySQL), ETL Pipelines, Web Scraping (BeautifulSoup, Scrapy)
Languages: Python (Expert), Java, C++, SQL
Specialized Knowledge: NLP (BERT, Transformers), CNNs, LSTMs, Reinforcement Learning
Tools & Platforms: NVIDIA CUDA, Docker, Git, Jupyter, Matplotlib, Tableau/PowerBI
Core Fundamentals: Probability & Statistics, Linear Algebra, Optimization, DSA

AI & DATA SCIENCE PROJECTS

SignSync — Real-Time Assistive Communication System
Python, MediaPipe, LSTMs, TensorFlow, OpenCV

- Developed a real-time sign language recognition system converting gestures into text/speech using temporal deep learning models.
- Leveraged MediaPipe for high-fidelity keypoint extraction and trained an LSTM network achieving 92% accuracy across multiple sign classes.
- Reduced inference latency by 30% via model quantization for edge-device compatibility.

InsightStream — NLP-Based News Bias Profiler
Python, BERT (Transformers), Scikit-Learn, MongoDB, Scrapy

- Engineered an automated pipeline scraping 500+ daily news articles across diverse sources.
- Fine-tuned BERT for sentiment and bias classification to detect political leanings.
- Designed a Bias Score metric using L_2 normalization to quantify ideological drift and visualize trends through a custom dashboard.

Fake News Classifier — Robust Predictive Modeling
Scikit-Learn, TF-IDF, Random Forest

- Performed feature engineering and advanced text preprocessing (lemmatization, stop-word removal), improving F1-score by 15%.
- Applied K-fold cross-validation and confusion matrix analysis to enhance robustness against adversarial samples.

EXPERIENCE & COLLABORATIONS

NVIDIA Centre of Excellence (University Laboratory)

- Utilized GPU clusters for deep learning model training, gaining hands-on experience with CUDA and parallel computation.
- Participated in advanced workshops on Prompt Engineering and Generative AI.

Samarthana Hackathon — 1st Place Winner

- Led data strategy and EDA for the winning solution, focusing on predictive resource allocation.
- Managed dataset preprocessing and feature analysis to drive core system logic.

ACHIEVEMENTS & CERTIFICATIONS

- Level 4 CodeChef; 5-Star in Java and Python on HackerRank.
- NPTEL Data Structures and Algorithms in Python (Nov 2024).
- Full-Stack Development in Python – EduSkills.
- Advanced Machine Learning (Ongoing).

EDUCATION

Shri Ramdeobaba College of Engineering and Management, Nagpur
B.Tech. in Computer Science (AI & ML) CGPA: 8.65
2023 – 2027