ANSH KUMAR NIMBORIA

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SUMMARY

B.Tech Computer Science graduate with strong expertise in machine learning, deep learning, and full-stack development. Proficient in building and deploying scalable AI-driven applications using Python, TensorFlow, FastAPI, React, and Docker. Experienced in executing real-time image classification systems, natural language processing tools, and end-to-end web applications. A quick learner and effective communicator with a collaborative mindset, combining strong technical expertise with soft skills such as teamwork, adaptability, and problem-solving. Passionate about leveraging technology to solve real-world challenges and eager to contribute to innovative, high-impact projects while continuously advancing technical and professional skills.

SKILLS

Programming Languages: Python, R
Machine Learning & Deep Learning: TensorFlow, PyTorch, scikit-learn, transformers, Keras
Natural Language Processing (NLP): NLTK, spaCy, Hugging Face Transformers
Data Handling & Visualization: NumPy, Pandas, Matplotlib, Seaborn
Web Development: React.js, FastAPI, HTML, CSS, JavaScript
DevOps & Tools: Docker, Git, Google Cloud, TensorFlow Serving, Jupyter Notebook, VS Code, PyCharm
APIs: REST APIs, WolframAlpha API, requests
Other: Pygame (Game Development)

EDUCATION

- S.R.M. University, Sonepat, Haryana
  Bachelor of Technology in Computer Science with specialisation in DS & AI
  2021 – 2025 (Completed)

- Guru Harkrishan Public School, Nanak Piao, New Delhi
  CBSE (Class X & XII, PCM)
  2007 – 2021

PROJECTS

Potato Disease Classification using CNN | [GitHub Repo]

- Designed and trained a custom CNN to classify potato leaf images into Early Blight, Late Blight, and Healthy classes using the PlantVillage dataset.
- Achieved **90%+** accuracy through optimised architecture and data augmentation.
- Created an end-to-end deployment pipeline:
  - Backend: Developed APIs using FastAPI to handle image input and return a prediction.
  - Model Serving: Deployed the model using TensorFlow Serving in Docker containers.
  - Frontend**:** Built a dynamic web interface using React.js with image upload and results view.
- Technologies: TensorFlow, NumPy, Pandas, Docker, React.js, FastAPI, Matplotlib

Phishing Detection using BERT (NLP) | [GitHub Repo]

- Built a phishing detection system using a fine-tuned BERT model to classify URLs into low, medium, and high-risk categories.
- Evaluated model with performance metrics:
  - Overall Accuracy: 74%
  - F1-score (Medium Risk): 79%
- Implemented a modular ML pipeline with preprocessing, training, evaluation, and inference scripts.
- Tools & Libraries: BERT (transformers), PyTorch, Pandas, Scikit-learn, NumPy

Virtual Assistant (Jarvis) | [GitHub Repo]

- Developed a voice-controlled personal assistant in Python capable of executing everyday tasks via voice commands.
- Integrated speech recognition, text-to-speech (TTS), and external APIs for real-time interaction.
- Features implemented:
  - Set alarms and manage system apps (e.g., open YouTube, Chrome, etc.).
  - Fetch current weather, news, and general Q&A using Wolfram Alpha API
  - Note-taking and recall via in-memory storage
  - Basic calculator, timer, and voice command loop
- Libraries: pyttsx3, speech_recognition, datetime, requests, json, WolframAlpha

CERTIFICATIONS

- Introduction to Python - IBM
- Artificial Intelligence Analyst - IBM
- Machine Learning with R - IBM
- Cloud Application Developer - IBM