DIVANSHU GOEL

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SUMMARY

B.Tech AI/ML student with hands-on experience in **machine learning**, **deep learning (CNNs)**, and **computer vision** using **Python** and **TensorFlow**. Proficient in **data analysis**, **model development and deployment**, and **cloud computing** with **AWS** and **Azure**. Strong foundation in **algorithms**, **statistical modeling**, and **collaborative software development**.

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, SQL, NoSQL (MongoDB)
- **Machine Learning & AI:** Supervised Learning, Deep Learning (TensorFlow, PyTorch, Keras), Ensemble Models, Computer Vision (OpenCV, CNN), NLP (spaCy, NLTK)
- **Data Science & Tools:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter, VS Code, Google Colab
- **Cloud & DevOps:** AWS (Cloud Practitioner), Azure, Docker, Git, Linux
- **Databases:** MySQL, MongoDB, File I/O, B+ Tree Indexing

EXPERIENCE

IBM SkillsBuild - Summer Intern

- Built an income prediction model using Logistic Regression, Random Forest, and XGBoost, achieving **90% prediction accuracy** through data preprocessing, feature engineering, and applying supervised learning algorithms.

PROJECTS & HACKATHON

INDIAN SIGN LANGUAGE RECOGNITION

Smart India Hackathon 2024 | Python, OpenCV, TensorFlow

- **Engineered** a convolutional neural network for real-time Indian Sign Language (ISL) recognition via webcam.
- Prepared and augmented a 2,000-image dataset to train the model, resulting in 95% classification accuracy.
- Presented the live prototype at Smart India Hackathon 2024 and received an innovation award for enhancing communication accessibility.

FAKE NEWS DETECTION USING ENSEMBLE MACHINE LEARNING

Python, scikit-learn, Logistic Regression, Decision Tree, Random Forest, Gradient Boosting

- **Engineered** a multi-model classifier for detecting fake news articles using supervised learning techniques including Logistic Regression, Decision Trees, Random Forest, and Gradient Boosting.
- Achieved 100% accuracy with Decision Trees and 98%+ with other models, combining them through an ensemble approach for robust fake news detection.
- Applied feature engineering (TF-IDF, text vectorization) and evaluated models using precision, recall, F1-score.

VOICE-BASED NEWS FETCHER WITH MAPPING

Python, NLP, NewsAPI, Folium

- **Developed** a voice-controlled news retrieval app.
- Utilized Speech-to-Text APIs to capture user queries, then queried the NewsAPI for relevant articles.
- Implemented Named Entity Recognition to extract geographical locations from headlines and **visualized news density on an interactive Folium map**.

B+ TREE FILE INDEXING

Java, SQL, Data Structures

- Designed a **B+ Tree** in **Java** to index large text files for efficient keyword search, linked file metadata to **SQL** for persistent retrieval, and applied **Data Structures** and optimization techniques for disk-based storage.

VIRTUAL EXPERIENCE & CERTIFICATIONS

Cloud Certifications:

- AWS Certified Cloud Practitioner. (AI 900)
- Microsoft Azure Fundamentals Certified

Professional Simulations:

- Tata Group – Cybersecurity Analyst Job Simulation.
- Goldman Sachs – Excel Skills for Business Job Simulation.
- Learning Microsoft 365 Copilot.
- J.P. Morgan – Software Engineering Job Simulation.

EDUCATION & OTHER

THE NORTHCAP UNIVERSITY *EXPECTED : MAY 2027*

Current CGPA: 9.45/10

SANSKARAM SENIOR SECONDARY SCHOOL (CBSE)

Class 12 (2023): 85%

LANGUAGES: English (fluent), Hindi (native)
INTERESTS: Cybersecurity challenges, AI applications, football, open-source projects, listening music, drawing.