SWAYAM VIRMANI

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SUMMARY

B.Tech in IT student at Manipal University Jaipur with strong expertise in Python and deep learning. Experienced in working with frameworks such as TensorFlow and Scikit-Learn for building and testing models. Skilled in analyzing data, conducting literature surveys, and quickly implementing research papers. Passionate about AI, recommendation systems, and foundational models. Eager to contribute to Sony's cutting-edge work in AI, data analytics, and research-driven innovations.

EDUCATION

Bachelor of Technology, (B.Tech) in Information Technology, Manipal University, Jaipur — Expected 2027

Current CGPA: **8.41** Last Semester GPA: **8.64**

SKILLS

- **Programming**: PHP, JavaScript, Java, C++, Python
- **Coursework:** Operating System, Computer Networks, RDBMS, DSA
- **Systems & OS**: Docker, Kubernetes, OS Concepts, Multithreading
- **Web Development:** HTML, CSS, JavaScript, React (learning)
- **Tools:** Git, AWS, Power BI, REST APIs, SQL
- **Soft Skills:** Problem-Solving, Teamwork, Adaptability

EXPERIENCE

Android Developer (App Link) — Jun 2024 - Jul 2024

Indev Consultancy Pvt. Ltd — *New Delhi, India*

- Enhanced app stability by **identifying and fixing 12+ critical bugs**, reducing crashes by **30%**.
- Redesigned UI features based on **user engagement analytics**, improving usability.
- Collaborated with the development team to integrate **data-driven feature enhancements**.

PROJECTS

- **Sentiment Analysis for Reviews-** Developed a real-time sentiment analysis system for product reviews using NLP & ML with an accuracy of 89 percent.
  - Co-authoring a research paper under faculty supervision on applying Machine Learning techniques for text classification.
  - Conducting extensive literature reviews, comparative analysis of traditional ML models (SVM, Logistic Regression) and deep learning approaches (LSTM, Transformers).
  - **Skills Used:** Python, NLP, SQL, Flask, AWS, Power BI
- **Fake Review Detection using Machine Learning –** Developed a machine learning model to classify product reviews as genuine or fake using natural language processing techniques.
  - Applied text preprocessing methods such as tokenization, stopword removal, and TF-IDF feature extraction to transform review text into numerical representations.
  - Visualized model performance through confusion matrix, precision-recall curves, and ROC-AUC scores.
  - Deployed the detection pipeline using Python, scikit-learn, and NLTK for practical usability.
  - **Skills Used :** Python, scikit-learn, NLTK, TF-IDF, Logistic Regression, SVM, Random Forest, Hyperparameter Tuning, pandas, Matplotlib, Seaborn

EXTRA-CURRICULAR ACTIVITIES

- **Writing and Publishing**: Written and published a couple of fictional books which are available on Amazon, showcasing creativity and commitment to bringing ideas to life. Link
- **Hackathons**: Actively participated in and organized hackathons, including my role as a social media marketing and outreach organizer for MUJHackX'24, attracting 1200+ participants. Link