TANVI DHAMANDA

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Education

MASTER IN DATA SCIENCE AND STATISTICS – Graphic Era Hill University – Dehradun **9.3/10 CGPA** | June2025
BACHELOR OF SCIENCE IN PHYSICS – Doon University – Dehradun **8.4/10 CGPA** | June 2023

Skills

- **Languages –** Python (Matplotlib, Seaborn, Sklearn, Tensorflow), R, SQL, Java, C++, JavaScript, HTML, CSS
- **Analysis Techniques –** Exploratory Data Analysis (EDA), Statistical analysis, Machine Learning, DL, NLP, Generative AI
- **Tools -** Git, Kaggle, R Studio, Jupyter, PyCharm, VSCode, Power BI, Excel, Postman, Docker

Work Experience

DATA SCIENCE INTERN – INSIGNIA CONSULTANCY SOLUTIONS **–** Remote May 2024 - Present

- Collaborated with the web scraping team to extract and process valuable data from diverse sources, contributing to our data-driven decision-making processes.
- Explored and applied Generative AI techniques, gaining hands-on experience with cutting-edge technologies and integrating these methods into our projects, develop strategies for preparing annotated data for fine-tuning large language models (LLMs).
- Performed detailed data annotation on resumes, enhancing the accuracy of our models by providing high-quality labeled data.

Projects

JARVIS AI DESKTOP ASSISTANT

- Built an AI desktop assistant using the **LLaMA** model with Groq, capable of chatting **like ChatGPT** and using speech recognition for voice interaction.
- Outputs responses in **voice form**, saves user queries and answers in a file, and plays music.
- Integrated with **APIs** for news and weather updates, enhancing functionality beyond standard interaction.

BOOK RECOMMENDATION SYSTEM

- Conducted Exploratory data analysis **(EDA)** to uncover insights and patterns in the book dataset.
- Developed **popularity-based** and **collaborative filtering based** recommendation systems to suggest books to users.
- Created a website using **Flask** and successfully deployed the recommendation model on Render for user accessibility.

CUSTOMER CHURN ANALYSIS

- Conducted efficient **data analysis** using Python and Employed **data visualization** techniques for insightful trend prediction.
- Completed the **engineering** and **optimization** of a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Made a concise executive summary, delivering actionable insights for informed decision-making based on the analysis.

MUSIC GENRE CLASSIFICATION WITH PCA AND LOGISTIC REGRESSION

- Applied Principal Component Analysis (PCA) to **reduce the dimensionality** of a diverse music dataset, improving computational efficiency while retaining essential information.
- Built and **trained** a **machine learning model** to classify music genres, leveraging the reduced feature set from PCA to achieve significant accuracy in genre prediction.
- Gained insights into the importance of **feature selection** and dimensionality reduction in enhancing model performance, and successfully identified the most influential features for genre classification.

Certifications and Contributions

- Pursuing IBM AI Engineer Certificate and Google Cloud Gen AI Study Program.
- Active contributor in GSSoC (GirlScript Summer of Code) and participant in Hacktoberfest.