AMAN KUMAR

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Education

Vellore Institute Of Technology, Vellore	**Sep. 2020 – July 2025**
Mtech Integrated Data Science	*7.8 cgpa*
Army Public School	**2020**
CBSE XII	*93.8%*

Experience

Kyure (Health tech VIT incubation startup)   **April 2023 – June 2023**
Research Intern   *Remote*
- Researched existing symptom detection technologies in the field of biotechnology.
- Analyse data and identify patterns to develop new methods for symptom detection.
- Design and conduct experiments to validate the effectiveness of new symptom detection technologies
- Received a Letter of Recommendation for my work (1 of 3 people out of 40 interns).

Valsco Tech   **Dec 2023**
Machine Learning Intern   *Remote*
- Machine Learning Intern at Jurident
- Participated in design discussions and code reviews for the project
- Used multiple hugging face NLP models to contribute to generative AI application.

Projects

TALK to DB(Database) APP | *Streamlit,LLMs,langchain, SQL, Google Palm*
- Create a conversational interface with the Database (DB) App using technologies such as Streamlit, Large Language Models (LLMs), langchain, SQL, and Google Palm, implemented best practices for code optimization and model implementation Conducted unit testing and integration testing to ensure the application's reliability.

FAKE NEWS DETECTION SYSTEM | *TF-IDF, Decision Trees, Gradient Boosting, Random Forest*
- Developed a robust Fake News Detection system using ML algorithms like Logistic Regression, Decision Trees, Gradient Boosting, and Random Forest. Preprocessed and vectorized textual data (TF-IDF) to train models on a large dataset of labelled news articles, achieving high accuracy

KNOW YOUR WEBSITE | *Python, streamlit, Feature engineering, KPI, Web structure Mining*
- Developed a web-based application for detecting potential threats in web requests. Leveraging machine learning models

COVID-19 AUTOMATED DASHBOARD | *Tableau, Feature engineering, KPI, Data Visualization*
- Created a pipeline for Converting real-time covid-19 data reporting to KPI's and interactive visualizations.

Technical Skills

Languages: Python, SQL, Java
Natural Language Processing (NLP): NLP techniques, NLTK, Hugging Face models, Generative AI
Data Analysis: Pandas, NumPy, Matplotlib, Hypothesis Testing, A/B Testing, Data Wrangling, EDA
Machine Learning: Supervised Learning (Linear Regression, Logistic Regression), Unsupervised Learning, Deep Learning, TensorFlow, Keras, scikit-learn, PyTorch
Tools: Power BI, MS Excel, Git, Figma, Jupyter Notebook, Anaconda, PostgreSQL
Web Technologies: HTML, CSS, JavaScript, React.js, Streamlit
Soft Skills: Problem-Solving, Communication, Analytical Thinking, Troubleshooting, Attention to Detail
Certifications: Artificial Intelligence Analyst - IBM, Data Science- British Airways, Introduction to Generative AI -(google) , Statistics - Linkedin (Basics),(Probability),(Using datasets)

Extracurricular

Fitness n Beyond   **Feb 2023– Jan 2024**
Core committee member   *VIT Vellore*
- Participated and helped organising Physical fitness events to spread awareness for fitness and also won 2nd prize in under 83kgs Power Lifting