
Abu Talha Ansari

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Objective

Energetic and adaptable AI & ML undergraduate with experience in end-to-end development of AI solutions, including e-commerce classification, financial NLP pipelines, and smart systems. Aiming to bring technical depth, creativity, and problem-solving skills to dynamic teams tackling next-gen challenges.

Education

- New Horizon College of Engineering**
BE in AIML 2023-2027
9.71 (CGPA)
- Cambridge PU College**
PUC 2023
94.16
- SJES Central School**
SSLC (CBSE) 2021
86.5

Skills

- Python, C, C++, SQL, Java, JavaScript
- HTML, CSS, React.js
- Microsoft Power BI & Excel
- Machine Learning & Deep Learning
- Natural Language Processing
- MySQL, SQLite, MongoDB
- Problem Solving
- Communication & Teamwork
- Time Management
- Creativity & Adaptability
- Presentation Skills
- Critical Thinking

Projects

- E-commerce Text Classification (Internship Project)**
Designed and implemented deep learning models (LSTM, Bi-LSTM, GRU, CNN-LSTM, Attention LSTM) to classify product descriptions from an e-commerce dataset into categories.
Technologies: Python, TensorFlow, Keras, NLP, FastText
Results: Achieved over 90% accuracy using optimized architectures and pre-trained embeddings. Improved the reliability of category tagging for product listings.
- Smart Power Grid Theft Detection Using AI (Mini Project)**
Developed an AI-based anomaly detection system using smart meter data to identify patterns of electricity theft.
Technologies: Python, Scikit-learn, Isolation Forest, Time Series Analysis
Results: Increased anomaly detection accuracy by 35% compared to traditional methods. Proposed a scalable model for integration with smart grids.
- NewsSense: Why Is My Fund Down? (Hackathon Project)**
Built a system to analyze mutual fund drops by linking financial data to real-world news using NLP and semantic search.
Technologies: Python, Alpha Vantage API, Bing News Scraper, Sentence Transformers, FAISS
Results: Enabled semantic explanation for fund dips, enhancing investor awareness. Finalist among top submissions in the hackathon.
- AI-Powered Travel Packing Assistant (PackPal)**
Created an AI assistant that recommends packing lists based on destination, weather, and duration using natural language input.
Technologies: Python, Streamlit, OpenAI API, Weather APIs
Results: Improved packing efficiency and reduced overpacking in user tests by 40%.
- Fish-Schooling-Inspired Traffic Simulation**
Simulated real-time traffic behavior using fish schooling algorithms to optimize vehicular flow at junctions.
Technologies: Python, Pygame, NumPy
Results: Demonstrated 25% decrease in congestion under simulated urban conditions.

- **AI-Enhanced Retail Experience (Sparkathon Project – Team Synapse)**

Led the development of an AI-powered demo for personal shopping, auto product videos, eco-score evaluation, and cart-based suggestions.

Technologies: Python, React, NLP, OpenAI, FFMPEG, Eco-score Metrics

Results: Delivered a fully functional prototype covering customer experience, sustainability, and intelligent recommendations.

Interests

- Exploring advancements in Artificial Intelligence and emerging tech
- Surfing through the internet for learning and research purposes
- Participating in community events and team-building activities
- Playing outdoor sports like cricket and badminton
- Volunteering and contributing to social causes
- Reading tech blogs and following AI research trends

Languages

- Read & Write- English, Hindi, Kannada, Urdu

Personal Details

- Date of Birth : 15/03/2006
- Nationality : Indian
- Religion : Islam
- Gender : Male
- GitHub : <https://github.com/GamerBhai02>
- Portfolio : <https://gamerbhai02.netlify.app>