

Abu Talha Ansari

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PROFESSIONAL SUMMARY

Third-year Artificial Intelligence and Machine Learning student with proven expertise in developing end-to-end AI solutions, from data preprocessing to production-ready model deployment. Demonstrated ability to quickly adapt to emerging technologies and independently solve complex problems through hands-on projects and internship experience. Strong foundation in deep learning, NLP, and data analysis with a passion for building ethical, user-centric solutions that drive real-world impact. Seeking opportunities to contribute technical depth, creativity, and problem-solving skills to innovative teams pushing the boundaries of AI technology.

EDUCATION

New Horizon College of Engineering	Bengaluru, India
<i>Bachelor of Engineering in Artificial Intelligence & Machine Learning</i>	2023 – 2027
CGPA: 9.71/10.0	Expected Graduation: May 2027
Cambridge PU College	Bengaluru, India
<i>Pre-University Course (PCMC)</i>	June 2021 – April 2023
Percentage: 94.16%	
SJES Central School	Bengaluru, India
<i>Secondary School Leaving Certificate (CBSE)</i>	2021
Percentage: 86.5%	

TECHNICAL SKILLS

Programming Languages:	Python, C++, C, Java, JavaScript, SQL
Machine Learning & AI:	TensorFlow, Keras, PyTorch, Scikit-learn, Deep Learning, Natural Language Processing
Data Science & Analytics:	NumPy, Pandas, Matplotlib, Data Preprocessing, Feature Engineering, Time Series Analysis
NLP & Embeddings:	NLTK, Sentence Transformers, FastText, FAISS, Attention Mechanisms
Web Development:	React.js, HTML, CSS, Streamlit, REST APIs
Cloud & Platforms:	Google Cloud Platform (GCP), Vertex AI, Google Gemini
Databases:	MySQL, MongoDB, SQLite, Microsoft Power BI
Tools & Technologies:	Git, GitHub, Jupyter Notebooks, FFmpeg, OpenAI API, Alpha Vantage API
Specialized Skills:	Text Classification, Anomaly Detection, Semantic Search, Computer Vision

PROFESSIONAL EXPERIENCE

Summer Intern <i>AIQuantum Smart Solutions Private Limited</i>	April 2025 – May 2025
<i>Suratkal, Karnataka, India</i>	
• Designed and implemented 5+ deep learning architectures (LSTM, Bi-LSTM, GRU, CNN-LSTM, Attention-based models) for e-commerce text classification, achieving over 90% accuracy on real-world Kaggle datasets with optimized pre-trained embeddings	
• Performed comprehensive data preprocessing and feature engineering on complex datasets, ensuring optimal input quality for machine learning algorithms and production-ready ML pipelines	
• Conducted rigorous comparative analysis using accuracy, precision, recall, and F1-score metrics to identify best-performing solutions; implemented Attention-based LSTM model that improved classification performance	
• Collaborated with teammates in a Git-controlled environment on hybrid neural network architectures, staying current with latest research trends in deep learning and NLP	
• Utilized Python, TensorFlow, Keras, scikit-learn, and Jupyter Notebooks for model development, testing, and documentation	

PROJECTS

E-commerce Text Classification <i>Python, TensorFlow, Keras, NLP, FastText</i>
• Designed end-to-end pipeline for classifying product descriptions into categories using advanced deep learning models

- Implemented and compared multiple architectures including LSTM, Bi-LSTM, GRU, CNN-LSTM, and Attention-based LSTM
- Achieved over 90% accuracy using optimized architectures and pre-trained embeddings, improving reliability of category tagging for product listings

NewsSense: Why Is My Fund Down? | *Python, Alpha Vantage API, Sentence Transformers, FAISS Hackathon Finalist*

- Built semantic search system linking mutual fund performance drops to real-world news events using NLP techniques
- Integrated Alpha Vantage API for financial data and Bing News Scraper for news aggregation with FAISS for efficient vector similarity search
- Enabled semantic explanation for fund dips, enhancing investor awareness through explainable AI; achieved finalist position among top hackathon submissions

Smart Power Grid Theft Detection Using AI | *Python, Scikit-learn, Isolation Forest, Time Series Mini Project*

- Developed AI-based anomaly detection system using smart meter data to identify patterns of electricity theft
- Increased anomaly detection accuracy by 35% compared to traditional rule-based methods using machine learning techniques
- Proposed scalable model architecture for integration with smart grid infrastructure for real-time theft detection

AI-Enhanced Retail Experience (Sparkathon) | *Python, React, NLP, OpenAI, FFMPEG, Eco-scoring*

Team Synapse – Team Lead

- Led cross-functional team in developing comprehensive AI-powered retail demo featuring personal shopping assistant, automated product video generation, eco-score evaluation, and intelligent cart-based suggestions
- Delivered fully functional prototype covering customer experience optimization, sustainability metrics, and recommendation systems
- Integrated multiple AI capabilities including NLP for conversational interfaces and computer vision for product analysis

AI-Powered Travel Packing Assistant (PackPal) | *Python, Streamlit, OpenAI API, Weather APIs*

- Created conversational AI assistant that recommends personalized packing lists based on destination, weather forecasts, and trip duration using natural language input
- Improved packing efficiency and reduced overpacking by 40% in user testing through context-aware intelligent recommendations
- Implemented user-friendly interface with real-time weather integration and dynamic list generation

CERTIFICATIONS & TRAINING

Prompt Design in Vertex AI Skill Badge – Google Cloud

Agents & Agentic AI Fundamentals – Google Cloud

Python Course for Beginners: Mastering the Essentials

Problem Solving and Ideation

Code For Bharat Season 2 – Participant

CORE COMPETENCIES

Technical: Problem Solving, Algorithm Design, Model Optimization, Research & Development

Soft Skills: Communication, Teamwork, Time Management, Creativity, Adaptability, Critical Thinking

Leadership: Presentation Skills, Team Collaboration, Mentoring, Project Management

INTERESTS & ACTIVITIES

Exploring advancements in artificial intelligence and emerging technologies; actively participating in community events and team-building activities; contributing to social causes through volunteering; following AI research trends and reading technical blogs; playing outdoor sports including cricket and badminton; continuously learning through internet research

LANGUAGES

Read & Write: English, Hindi, Kannada, Urdu