

# 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

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

## 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

<b>Summer Intern</b>   <i>AIQuantum Smart Solutions Private Limited</i> <i>Suratakal, Karnataka, India</i>	April 2025 – May 2025
<ul style="list-style-type: none"><li>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</li><li>Performed comprehensive data preprocessing and feature engineering on complex datasets, ensuring optimal input quality for machine learning algorithms and production-ready ML pipelines</li><li>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</li><li>Collaborated with teammates in a Git-controlled environment on hybrid neural network architectures, staying current with latest research trends in deep learning and NLP</li><li>Utilized Python, TensorFlow, Keras, scikit-learn, and Jupyter Notebooks for model development, testing, and documentation</li></ul>	

## PROJECTS

<b>E-commerce Text Classification</b>   <i>Python, TensorFlow, Keras, NLP, FastText</i>
<ul style="list-style-type: none"><li>Designed end-to-end pipeline for classifying product descriptions into categories using advanced deep learning models</li></ul>

- 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

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**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

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**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

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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

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**Read & Write:** English, Hindi, Kannada, Urdu