ANUBHAV SANKET

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PROFESSIONAL SUMMARY

ML Engineer specializing in GenAI, multi-modal AI systems, and production ML pipelines. Built local-first AI video automation platform using Ollama (Gemma 3), WhisperX, and PyQt6 with 100% offline LLM deployment. Achieved Kaggle Rank 158/4,506 (Top 3.5%) in Hull Tactical Market Prediction competition. Expertise in LLM deployment, NLP, computer vision, and CUDA optimization. Seeking ML Engineer / GenAI Engineer roles to leverage production AI expertise.

EDUCATION

B.E. in AIML | Dayananda Sagar Academy of Technology and Management (VTU), Bangalore | 2020 - 2024
Senior Secondary (Intermediate) | NIOS, Patna
Secondary (Matriculation) | DAV Public School, Patna

SKILLS

- **GenAI & LLMs :** Ollama (local LLM deployment), Gemma 3, Llama models, prompt engineering, RAG systems
- **Multi-Modal AI & ML :** WhisperX, OpenAI Whisper, OpenCV, PyTorch, TensorFlow, scikit-learn, NLP (NLTK, spaCy, Transformers)
- **Video/Audio Processing :** FFmpeg, HandBrake, Mediapipe, audio extraction, word-level timestamps, NVENC encoding
- **Programming Languages:** Python, Java, SQL, JavaScript, HTML, CSS
- **Data & Analytics :** Power BI, DAX, Pandas, NumPy, Matplotlib, Seaborn, KPI development, Power Query
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Tools & Platforms:** Jupyter Notebook, Streamlit, Git, PyQt6, CUDA, Azure, MS Excel
- **Soft Skills:** Analytical Thinking, Problem-Solving, Team Collaboration, Technical Communication, Documentation

PROFESSIONAL EXPERIENCE

Machine Learning / Power BI Intern - Oaz Shakti (Remote) | Nov 2025 – Jan 2026
Tech: ML (Time-Series), SQL, Power BI, DAX, Power Query, Python, Excel
ML & Quantitative Finance:

- Achieved Rank 158/4,506 (Top 3.5%) in Kaggle Hull Tactical Asset Allocation competition using quantitative optimization techniques
- Applied scipy.minimize() with Powell method to maximize modified Sharpe ratio for tactical asset allocation
- Developed portfolio optimization models with volatility penalties and risk management constraints
- Demonstrated quantitative finance skills in competitive global ML challenge

Analytics & Business Intelligence:

- Developed electrical business analytics dashboard analyzing 24K+ transactions worth ₹124.6M
- Tracked KPIs: Net Revenue, Gross Profit (₹23.49M), Profit Margin (18.9%)
- Identified ₹8.4M in overdue payments, enabling data-driven cash flow management
- Designed Sales, Receivables & Payment Aging, and Inventory dashboards using DAX measures

Full-stack Developer – Varcons Technologies Pvt Ltd, Bengaluru | Aug 2023 – Oct 2023 | [Certificate]
Tech: HTML, CSS, ReactJS, MongoDB

- Developed responsive website for TechTune Motors with car availability tracking and appointment scheduling
- Integrated MongoDB for data management with real-time CRUD operations
- Improved page load time by 30% through database query optimization

PROJECTS

Viral Clipper - Local GenAI Video Automation Platform
Tech Stack: Ollama (Gemma 3), WhisperX, PyQt6, FFmpeg, CUDA
Description: Built production-ready GenAI platform that automatically identifies and extracts viral moments from long videos using LLM analysis. Privacy-first alternative to OpusClip ($360/year) running 100% offline with zero cloud costs. Uses Gemma 3 via Ollama for context-aware analysis of viral moments, WhisperX for word-level timestamp precision transcription, and intelligent video editing. Batch processing enabled, the platform can handle 100+ parallel workflows. AI-driven 9:16 aspect ratio with face-centered framing and AI-generated animated captions with "Hormozi-style" word-level highlighting.

Hull Tactical Market Prediction - Kaggle Competition (Rank 158/4,506)
Tech Stack: Python, NumPy, Pandas, Polars, SciPy optimization, Sharpe ratio
Description: Achieved Rank 158 out of 4,506 participants (Top 3.5% worldwide) in Hull Tactical's competitive financial challenge using quantitative optimization to maximize modified Sharpe ratio. Outperformed 96.5% of global competitors. Applied scipy.minimize() with Powell method to maximize risk-adjusted returns on historical data. Optimized daily allocation between risk-free rate (cash) and market exposure with 0.0-2.0 leverage constraints. Calculated annualized returns, volatility, and drawdowns (252 trading days). Demonstrated quantitative finance skills and portfolio optimization. Gained competitive ML experience in global challenge.

WhisperBurn – Professional Subtitle Intelligence Platform
Tech Stack: WhisperX, FFmpeg, Gradio, PyTorch, CUDA
Description: Developed AI-powered subtitle generation and burning platform with word-level precision and visual editing capabilities. Features custom subtitle styling (colors, fonts, borders) and manual editing interface for professional video production. CUDA-optimized transcription (GPU acceleration). Zero-config launcher with automatic dependency management. It features word-level precision (±100ms accuracy), Multi-language support, more than 100 languages with automatic detection and high accuracy using Whisper large-v2 model (95%+ transcription).

Customer Segmentation using K-means | Research paper published at IJNRD [View Paper]
Tech Stack: Python, scikit-learn, NumPy, Pandas, Seaborn, Jupyter Notebook
Description: Developed unsupervised ML system using K-Means Clustering, NumPy, Pandas, and Seaborn. Analyzed customer purchasing patterns and demographics, enabling businesses to target specific customer segments. Applied Elbow Method and Silhouette Analysis for optimal cluster selection. Published peer-reviewed research paper.

ACHIEVEMENTS

- Kaggle Competition: Rank 158/4,506 (Top 3.5%) in Hull Tactical Asset Allocation Challenge (Sep 2025 - Dec 2025)
- Technical Leadership: Core Member, Art & Literature Club - Organized 3 events during Karnataka Rajyotsava 2022
- Hackathon: Google Tunix Hackathon Participant (2025)

CERTIFICATIONS

- Certified in Data Engineering on Microsoft Azure (Microsoft)
- Certified in Power BI (Infosys Springboard)
- Certified in Cyber Security (Infosys Springboard)
- Certified in hands-on Python (Coursera)