HARSH MAHESH TIKONE

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SUMMARY

Strong academic record (CGPA: 9.68) and practical experience gained from internships at Pantech Prolabs, Kirana Friends by TRRAIN Circle Technologies Pvt. Ltd, and Tata Consultancy Services characterize this highly driven and meticulous AI/ML enthusiast. demonstrated aptitude for using cloud services like Microsoft Azure, machine learning, and deep learning to develop and implement intelligent systems. proven ability to create scalable AI tools for practical uses, such as recommender systems, shelf analytics, and KYC automation. published a number of research papers on multimodal conversational systems and natural language processing at international conferences.

EDUCATION

Thakur College of Engineering and Technology   **Mumbai, Maharashtra, India**
B.Tech in Artificial Intelligence and Machine Learning   *Jun'21 - Jul'25*
- CGPA: 9.68
- **Concentrations:** Artificial Intelligence and Machine Learning.
- **Related Coursework:** Natural Language Processing, Computer Vision, Predictive Analytics, Neural Networks & Deep Learning, Data Structures & Algorithms, Probability & Statistics, Cloud Computing & Big Data, Software Engineering, Ethics in AI.

VPM's B.N. Bandodkar College of Science   **Thane, Maharashtra, India**
HSC with PCM with Bifocal-Computer Science   *Jun'19 - Mar'21*
- Percentage: 89.17%

SMT. Radhikabai Meghe Vidyalaya   **Navi Mumbai, Maharashtra, India**
SSC   *Jun'18 - Mar'19*
- Percentage: 84.4%

SKILLS

Programming: Python, C, C++, HTML, CSS, MATLAB, Numpy, Pandas.

Technical/Programmatic: Data Structures and Algorithms, Machine Learning, Deep Learning, Data Preprocessing, Computer Vision, Natural Language Processing, Tensorflow, Scikit-learn, Power BI, Tableau, Data Visualization, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Microsoft Azure.

Platforms: Windows, MacOS, Linux.

Soft Skills: Leadership & Strategic Planning, Cross-functional Collaboration, Problem Solving & Analytical Thinking, Technical Writing, Public Speaking, Customer Relationship Management.

WORK EXPERIENCE

Tata Consultancy Services   **Thane, Maharashtra, India**
Project Intern   *Jan'25 - Mar'25*

- Using Azure Face API, Azure Vision Services, and Blob Storage, an AI-powered Video KYC solution was created to automate identity verification and extract text from live customer video sessions.
- Greatly decreased the amount of manual intervention in the KYC process by achieving an accuracy of about 95% in OCR-based document data extraction.
- Created and put into use a Value Asset Evaluation module to evaluate asset risk levels using supervised machine learning models that were made available through Azure Machine Learning.
- Increased operational efficiency by reducing manual evaluation efforts by 60% and speeding up the asset assessment process by about 40%.
- Built a safe, scalable, and legal pipeline for asset assessment and KYC by integrating more than six Azure cloud services, such as Key Vault, App Services, and Storage Accounts.

Kirana Friends by TRRAIN Circle Technologies Pvt. Ltd.   **Mumbai, Maharashtra, India**
AI&ML Intern   *May'24 - Jul'24*

- Convolutional Neural Networks (CNNs) were used to build a Shelf Analysis tool that categorized over 300,000 entries into more than 30 product categories for structured retail data processing.
- Workflows for automatically classifying shelf images have improved the speed and precision of product placement

detection in Kirana (retail) stores.

- Using the Google Maps API, a location feasibility study was carried out for the Kirana store expansion, combining business intelligence metrics with geospatial data.
- Used more than 10 evaluation criteria, such as population flow, accessibility, and competitor density, to assess the suitability of possible store locations.
- Quantitative models were used to estimate store-level market share, offering data-driven support for decisions based on location.
- Worked with a cross-functional team to implement AI tools that enhance regional business performance and empower micro-retailers.

Pantech Prolabs India Pvt. Ltd.   **Mumbai, Maharashtra, India**
Machine Learning Intern   *Mar'24 - Apr'24*

- Carried out more than ten machine learning projects, analyzing a variety of datasets using algorithms like Support Vector Machines, Decision Trees, K-Nearest Neighbors, and K-Means Clustering.
- Created a content-based movie recommender system that improved recommendation relevance by 30% by utilizing cosine similarity and CountVectorizer.
- Using the Apriori algorithm, market basket analysis was carried out to identify frequently occurring itemsets and produce useful retail association rules.
- Enhanced insights from unstructured text data by applying natural language processing (NLP) techniques for sentiment analysis and document classification.
- Gained comprehensive experience in managing the model lifecycle by preprocessing, training, evaluating, and deploying machine learning models.
- Contributed to internal knowledge bases and reproducible code pipelines by documenting project outcomes and methodologies.

Holo Inventions   **Mumbai, Maharashtra, India**
Research and Development Intern   *Nov'23 - Jan'24*

- Used computer vision techniques like frame segmentation, background subtraction, and filtering to create an automated video editing tool for holographic content.
- 40% less time was spent manually editing videos, and the content in holographic projection systems was more aligned and clear.
- To improve compatibility with holographic display formats, more than 100 video samples were processed using image editing libraries.
- By refining the segmentation and frame enhancement algorithms, the accuracy of the video-to-hologram transformation was increased by 25%.
- investigated marketing use cases for AR, VR, and MR, including a prototype interactive holographic business card for product promotion.
- Participated in R&D brainstorming and prototyping sessions, offering creative suggestions for visual technologies that are ready for the future.

MyCaptain   **Mumbai, Maharashtra, India**
Campus Ambassador   *Feb'22 - Mar'22*

- Promoted MyCaptain programs to a student base of **1,000+ peers** at Thakur College of Engineering through both digital and offline campaigns.
- Contributed to a 30% increase in student sign-ups for workshops by executing targeted marketing strategies and personalized outreach.
- Organized and led more than 3 engagement events to drive awareness, including webinars and peer discussions on career-oriented learning.
- Collaborated with a team of many ambassadors nationwide to plan and optimize marketing approaches across multiple institutions.
- Developed key skills in business development, sales communication, and community building, enhancing leadership and campus influence.

PROJECTS

Research Paper Analysis and Formatting Tool

- **Tools:** Python, PyPDF4, NLP techniques.
- Processed and formatted research papers to meet specific journal requirements with 95% compliance accuracy. Implemented an automated summarization system, reducing manual screening time by over 70%. Enhanced efficiency for research paper submission and analysis workflows through end-to-end automation.

Shelf Analysis Tool

- **Tools:** Python, CNN, Computer Vision Techniques.
- Developed a shelf analysis tool for Kirana Friends, classifying a dataset of 300,000–500,000 entries into 30+ categories. Utilized CNN classification and computer vision to capture images and verify shelf placement accuracy, optimizing product organization and enhancing store efficiency.

MovieMatch

- **Tools:** Python, CountVectorizer, Cosine Similarity
- Developed a movie recommendation system using a dataset of over 5,000 movies from TMDB, employing CountVectorizer and cosine similarity to analyze user preferences and provide tailored movie suggestions. Achieved high recommendation accuracy, enhancing user engagement and satisfaction.

Customer Behavior Insights Dashboard

- **Tools:** Power BI, SQL, Excel
- Developed an interactive dashboard analyzing key metrics such as customer churn, payment methods, contract types, and demographics, providing actionable insights for business development and customer retention strategies.
- Identified patterns that reduced churn by **15%, particularly** for month-to-month contracts **(73.46% churn risk)** and electronic check users **(57.3% churn risk).**

Operation Analytics and Investigating Metric Spike

- **Tools:** MySQL, Python, SQL, Jupyter Notebook, Pandas
- Evaluated company operations and investigated metric spikes to provide actionable insights.
- SQL table creation, job review analysis, throughput calculation, engagement metrics.

HR Analytics

- **Tools:** Excel, Python, Jupyter Notebook, Pandas.
- Analyzed hiring trends for a multinational company to provide insights into the recruitment process.
- Data cleaning, exploratory data analysis, handling missing data, outlier detection, and visualization.

RESEARCH / PROGRAMMING ACTIVITIES

- **Presented** a FULL length Research Paper on the topic "**AI-Powered Research Paper Assistant: Automating Summarization, Evaluation, and Multi-Guideline Formatting**" in International Conference on Intelligent Computing and Networking (ICICN 2025)

- **Presented** a FULL length Research Paper on the topic "**A Systematic Literature Review on Multimodal Conversational System: A Deep Dive into Image-Integrated Chat Generation Methods**" in the International Conference on Intelligent Computing and Networking (ICICN 2024)

- **Presented** a SHORT length Research Paper on the topic "**Virtual Assistant**" in the International Conference on Intelligent Computing and Networking (ICICN 2023)

- Speaker in the peer learning session conducted by SUPER AI COMMUNITY STAKEHOLDER CONNECT

- **5** star in Hacker Rank (Python, Problem Solving)

- **3** star in Codechef.

CO/EXTRA-CURRICULAR ACTIVITIES

General Advisor at TSDW (TCET Student Development & Welfare) *Jun'24 - Jul'25*
- Several student-led projects centered on academic, cultural, and personal growth received strategic direction and mentoring from me.
- Provided the core committee with advice on interdepartmental cooperation, event planning, and policy decisions.
- Played a significant part in addressing student complaints and guaranteeing all-around development through welfare drives and workshops.

Joint Discipline Secretary at TSDW (TCET Student Development & Welfare) *Jun'23 - Jul'24*
- During college-wide events, I kept the peace and made sure that seminars, fests, and guest sessions ran smoothly.
- arranged for volunteers from the faculty and students to uphold the institution's code of conduct during important events.
- helped organize and plan leadership development exercises and student welfare campaigns.

Junior Council at TCET NSS UNIT (National Service Scheme) *Aug'22 - Jun'23*
- Actively took part in blood donation drives, tree planting campaigns, and cleanliness drives, among other social outreach events.
- Helped plan community-wide health, education, and environmental sustainability awareness campaigns.
- Coordinated community service projects and recruited student volunteers in cooperation with senior council members.

ADDITIONAL COURSES

- Programming for Everybody an online non-credit course authorized by University of Michigan.

- 8 Weeks Data Analytics Specialization Training with R, Trainity.

- Power BI Job Simulation, PwC.

- Accenture North America Data Analytics and Visualization Job Simulation on Forge.

- Getting Started with NLP of upGrad knowledgehut.