

EDUCATION AND SCHOLASTIC ACHIEVEMENTS				
Program		Institution	CGPA / Percentage	Year
B.Tech in Mechanical Engineering		Indian Institute of Technology Madras	7.4/10	2026
XII (CBSE)		Vishwanath Appa Hurne College	87.83%	2022
X (CBSE)		Mahatma Phule English School	98%	2020
Scholastic Achievements		<ul style="list-style-type: none"><li>Attained qualification for <b>Stage-2</b> of the 3 stages in Dr. Homi J. Bhabha Balvaidnyanik examination</li><li>Secured <b>98.40</b> percentile in <b>JEE Mains</b> and attained category rank of <b>1247 in JEE Advanced</b></li><li>Scored <b>99.2</b> percentile in the Maharashtra State Common Entrance Test Cell (<b>MHT CET</b>) exam</li></ul>		
PROFESSIONAL EXPERIENCE				
Vulnerability Management Summer Internship'25 @BNY		<i>Real-Time Risk Dashboard with API-Driven Data Ingestion and integrating automatic Jira Creation</i> <ul style="list-style-type: none"><li>Automated <b>API-to-Snowflake DB</b> vulnerability data ingestion, cutting manual ETL effort by <b>90%</b></li><li>Built interactive <b>Dash UI dashboard</b> for real-time tracking using bar charts &amp; pie graphs to visualize</li><li>Optimized SQL query to fetch <b>10K+</b> records at once, under <b>500 ms</b> and display it in dashboard</li><li>Scheduled API data fetch via <b>Airflow DAGs</b>, ensuring synchronized DB &amp; dashboard data refresh</li><li>Integrated Jira <b>REST APIs</b> to bulk-fetch vulnerability <b>JSON payloads</b> with the custom query filters</li><li>Added one-click <b>Jira creation</b>, syncing it to DB &amp; dashboard via <b>Snowflake-Python Connection</b></li></ul>		
PROJECTS				
SpotyMood [Self Project]		<i>AI-powered personalized Spotify playlist generator by analyzing faces, voice, or manual mood input</i> <ul style="list-style-type: none"><li>Developed interactive <b>Dash + Flask</b> web app for <b>mood detection</b> and then Spotify playlist creation</li><li>Achieved mood detection from face using <b>OpenCV</b>, <b>TensorFlow</b> and voice by <b>Whisper</b>, <b>Pyaudio</b></li><li>Built a playlist generator integrating <b>Spotify's API</b> with custom mood-based audio feature analysis</li></ul>		
AgriMitra [Hackathon project]		<i>AI farming advisor having voice-enabled, data-driven personalized guidance with 80% accuracy</i> <ul style="list-style-type: none"><li><b>React</b>-based chat interface with <b>AI voice search</b> model (local dialects) &amp; offline farming knowledge</li><li>Built <b>weather-API</b>, <b>ML model</b> for smart irrigation, crop recommendations, &amp; pest detection advices</li><li>Provides <b>weather alerts</b>, practical safety measures &amp; relevant government policies to help farmers</li></ul>		
Credit Card Fraud Detection [Self Project]		<i>Built fraud detection system with ROC-AUC using SMOTE-balanced XGBoost, beating other models</i> <ul style="list-style-type: none"><li>Prepared data using pandas &amp; <b>scikit-learn</b>/imblearn for scaling (<b>SMOTE</b>) imbalanced transactions</li><li>Trained &amp; compared <b>LogisticRegression</b>, <b>RandomForest</b> &amp; <b>XGBoost</b> with <b>ROC-AUC</b> evaluation</li><li>Optimized by tuning <b>XGBoost</b> using <b>GridSearchCV</b> &amp; saved best model with <b>joblib</b> for prediction</li></ul>		
Expense Tracker [Self Project]		<i>Smart Expense Tracker with Dash, Plotly &amp; Snowflake-Ready architecture for efficient management</i> <ul style="list-style-type: none"><li>Built an interactive expense dashboard with <b>Dash</b>, <b>Plotly</b>, and <b>Pandas</b> featuring real-time updates</li><li>Implemented <b>JSON data</b> persistence, dynamic callbacks, and input validation using Dash state</li><li>Designed modular UI with custom CSS, responsive layout, and category-wise charts for analysis</li></ul>		
YouTube Clone [Self Project]		<i>Developed a YT clone with search functionality in Python (Dash), integrated YT &amp; Google &amp; APIs</i> <ul style="list-style-type: none"><li>Built a YouTube clone with <b>Dash Bootstrap</b>, focusing on search to avoid shorts/feed distractions</li><li>Used <b>YouTube API</b> for <b>search results</b> and added <b>voice search</b> by using <b>Google Assistant API</b></li><li>Implemented <b>Google Sign In</b> using <b>Firestore AUTH</b> &amp; utilized <b>SQLite</b> to store the user preferences</li></ul>		
Algorithmic File Compressor [Self Project]		<i>Efficient Huffman Coding Algorithm for Lossless Text Compression and Accurate Decompression</i> <ul style="list-style-type: none"><li>Developed <b>Huffman tree</b> using <b>MinHeap</b> and <b>frequency</b> analysis for the prefix code generation</li><li>Built encoder mapping characters to <b>variable-length codes</b> with metadata and compressed data</li><li>Rebuilds Huffman tree from frequency table for <b>lossless decoding</b> and exact text reconstruction</li></ul>		
SKILLS AND COURSEWORK				
Functions of Several Variables		Series and Matrices	Linear Algebra	Differential Equations
Scientific Computing		Covers Linux, programming, Octave, clusters, GPU computing, visualization, and LaTeX		
Libraries		Pandas, Numpy, Matplotlib, SQLAlchemy, Requests, Dash, Streamlit, Scikit-learn, OpenCV, PyTorch		
Coding Skills		Python, C++*, DSA in Python, HTML, CSS, Tailwind CSS, MySQL, Dash UI, JavaScript, OOPS*, Java*, ReactJS*, Node JS*, Machine Learning, Natural Language processing(NLP)**		
Tools & Software		Linux OS, Snowflake, Dataiku, Git, GitHub, LaTeX, AutoCAD, Fusion 360, GNU Octave, Matlab, GeoGebra, Jupyter Notebook, IDEs, Canva, Figma, Illustrator, Photoshop, MS Clipchamp		
POSITION OF RESPONSIBILITIES				
Co-Curricular Secretary	TechSoc (Aug'24-May'25)	<ul style="list-style-type: none"><li><b>Core of Design Vertical</b> of TechSoc, maintaining consistent branding across many institute bodies</li><li>Led a <b>two-tier branding team</b> independently, managing design workflows and mentoring juniors</li></ul>		
	Shaastra O&IP (Dec22'- Jan23')	<ul style="list-style-type: none"><li>Volunteered in <b>Shaastra's Operations &amp; Infrastructure team</b>, assisting with the event logistics</li><li>Managed <b>on-ground coordination</b>, coordinating <b>10+ vendors</b> along with serving <b>30K+ attendees</b></li></ul>		
Student General Secretary	Extra Mural Lectures(EML) (Apr'23-May'24)	<ul style="list-style-type: none"><li><b>Creative Cell Coordinator</b> at EML: hosted events, managed publicity &amp; handled <b>5000+ attendees</b></li><li>Led publicity activities for <b>15+ talks</b> featuring speakers like <b>Dr. S. Somanath</b> and <b>K. Annamalai</b></li><li><b>Moderated the lecture</b> by Padmashri Awardee Dr. Prakash Baba Amte and Dr. Mandakini Amte</li></ul>		
	Saathi Team (Aug'24-May'25)	<ul style="list-style-type: none"><li><b>Super-Coordinator of Design &amp; Publicity Vertical</b> of team Saath, handling all outreach events</li><li>Led <b>10+</b> large-scale student events, managing <b>1000+ participants</b> in collaboration with the team</li></ul>		
Cultural Secretary	Drama Club (May23'-April24)	<ul style="list-style-type: none"><li><b>Coordinator of Drama Club</b>, managing PR, participating in the <b>biggest drama fest</b> in the institute</li><li>Handled theatre arts events at the cultural fest, managing <b>1000+ participants</b> from <b>20+ colleges</b></li></ul>		
EXTRA-CURRICULAR ACTIVITIES				
<ul style="list-style-type: none"><li>Performed in Inter IIT Street Play for IIT Madras (<b>2023 &amp; 2024</b>), demonstrating strong stage presence and public speaking skills</li><li>Won <b>1st place at the district level</b> in long-distance running and Kabaddi, showcasing the athletic performance and team spirit</li><li>Awarded <b>"Student of the Year"</b> twice and served as <b>school team leader for 3 years</b> and showcasing my academic excellence</li></ul>				