

**ARNAV BHARTI**Course : **B.E. (Hons.)**, Computer Science and **M.Sc. (Hons.)**, Biological Science, 2027

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CGPA : 8.03

**ACADEMIC DETAILS**

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Kothari International School	CBSE	92.8 %	2022
CLASS X	Kothari International School	CBSE	98.5 %	2020

<b>Subjects / Electives</b>	Data Structures and Algorithm, Object Oriented Programming, Deep Learning, Database Systems, Computer Programming, Microprocessor & Interfacing, Discrete Structures, Logic in Computer Science
<b>Technical Proficiency</b>	Python, JavaScript, TypeScript, Dart, Flutter, React Native, Firebase, Django, PyTorch, Linux, SQL, Java

**INTERNSHIPS**

<b>App Developer, Interface</b>	<b>Jan 2025 - Feb 2025</b>
<ul style="list-style-type: none"><li>Built <b>cross-platform</b> mobile app using <b>Expo</b>, <b>React Native</b>, and <b>TypeScript</b> to scan barcodes, call APIs, and improve workflows</li><li>Integrated <b>camera</b> access, authentication, and <b>caching</b>, and converted detailed <b>Figma</b> designs into responsive, high-quality mobile UI</li><li>Resolved <b>iOS &amp; Android differences</b> in camera, UI, and storage handling, ensuring consistent cross-platform performance and reliability</li></ul>	
<b>Android Developer, Indian Institute of Quantitative Finance (IIQF)</b>	<b>Jul 2024 - Aug 2024</b>
<ul style="list-style-type: none"><li>Built Jetpack <b>Compose</b>-based Android app in <b>Kotlin</b> using <b>MVVM</b>, delivering event and webinar updates with smooth UI architecture</li><li>Integrated <b>Retrofit</b>, <b>Room</b>, <b>WorkManager</b>, and <b>FCM</b> for real-time sync, offline support, background jobs, and high-performance APIs</li><li>Implemented notifications, background services, and efficient local storage using modern architecture and Kotlin best practices</li></ul>	
<b>Backend Developer, MASTH Life - Ultrahive Healthcare Pvt Ltd</b>	<b>May 2024 - Jul 2024</b>
<ul style="list-style-type: none"><li>Built <b>multi-tenant authentication</b> and document management APIs using <b>Django REST</b>, with CRUD, roles, and normalized schema</li><li>Integrated <b>Gemini</b>, <b>LangChain</b>, and <b>Vertex AI</b> APIs to enable <b>retrieval-augmented generation</b> with context-aware, grounded responses</li><li>Engineered a <b>modular backend</b> system supporting uploads, downloads, renaming, and organisation-level access control with user roles</li></ul>	

**PROJECTS**

<b>Official Fest Apps for BOSM '23, Oasis '23 and APOGEE '24 - Mobile Application Development</b>	<b>Feb 2023 - Mar 2024</b>
<ul style="list-style-type: none"><li>Built and deployed <b>Flutter</b> apps for <b>8K+</b> users, enabling <b>1.5Cr+</b> revenue through food ordering, ticketing, and event management tools</li><li>Implemented Figma designs using <b>custom painters</b> and animations, creating responsive and visually engaging mobile app interfaces</li><li>Developed QR-based ticket scanner, <b>FCM</b>-powered notification manager, and order management system for real-time event operations</li></ul>	
<b>Cancer Classification using CNN - Deep Learning</b>	<b>Mar 2025 - Apr 2025</b>
<ul style="list-style-type: none"><li>Trained <b>MobileNetV2/V3</b>-based skin cancer classifier with <b>PyTorch</b> achieving 68% accuracy through transfer learning and fine-tuning</li><li>Applied class <b>weighting</b>, data <b>augmentation</b>, <b>dropout</b>, and <b>ReduceLROnPlateau</b> to tackle class imbalance and improve generalization</li><li>Built custom dataset, DataLoader, and classifier heads, evaluated with confusion matrix and F1-scores to ensure real-world reliability</li></ul>	
<b>Investigating the Epigenetic Landscape of Severe Malaria - Data Analysis</b>	<b>Jan 2024 - Present</b>
<ul style="list-style-type: none"><li>Analyzed genome-wide DNA methylation in <i>P. vivax</i> isolates using <b>Python</b>, <b>Bash</b>, and CLI tools; paper currently in preparation</li><li>Automated workflows and created custom scripts to run genomic tools and generate visualizations with <b>matplotlib</b> and <b>Linux</b> utilities</li></ul>	
<b>Command Line Based LLM Agent - AI/ML</b>	<b>Jul 2025 - Jul 2025</b>
<ul style="list-style-type: none"><li>Built a <b>CLI</b>-based <b>LLM</b> agent using <b>Python</b> and <b>Gemini API</b> with tool-use, memory, and file interaction for command-line automation</li><li>Enabled directory crawling, Python script execution, and file editing through natural language using a dynamic agentic architecture</li></ul>	

**POSITION OF RESPONSIBILITY**

<b>APOGEE Joint Coordinator - Department of Visual Media</b>	<b>May 2024 - Present</b>
<ul style="list-style-type: none"><li>Led a <b>33</b>-member tech team delivering apps, websites, games, and media for <b>9K+</b> attendees, contributing to over <b>2 Cr</b> in festival revenue</li><li>Directed cross-team coordination, set tech goals, managed timelines, and ensured high-quality deliverables across APOGEE and Oasis.</li></ul>	

**CERTIFICATIONS**

CERTIFICATION	CERTIFYING AUTHORITY
Supervised Machine Learning: Regression and Classification	Stanford Online and DeepLearning.AI