

ARNAV BHARTI

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

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CGPA: 8.03



ACADEMIC DETAIL	DEMIC 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	

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

INTERNSHIPS

App Developer, Interface

Jan 2025 - Feb 2025

- Built cross-platform mobile app using Expo, React Native, and TypeScript to scan barcodes, call APIs, and improve workflows
- Integrated camera access, authentication, and caching, and converted detailed Figma designs into responsive, high-quality mobile UI
- Resolved iOS & Android differences in camera, UI, and storage handling, ensuring consistent cross-platform performance and reliability

Android Developer, Indian Institute of Quantitative Finance (IIQF)

Jul 2024 - Aug 2024

- Built Jetpack Compose-based Android app in Kotlin using MVVM, delivering event and webinar updates with smooth UI architecture
- Integrated Retrofit, Room, WorkManager, and FCM for real-time sync, offline support, background jobs, and high-performance APIs
- Implemented notifications, background services, and efficient local storage using modern architecture and Kotlin best practices

Backend Developer, MASTH Life - Ultrahive Healthcare Pvt Ltd

May 2024 - Jul 2024

- Built multi-tenant authentication and document management APIs using Django REST, with CRUD, roles, and normalized schema
- Integrated Gemini, LangChain, and Vertex Al APIs to enable retrieval-augmented generation with context-aware, grounded responses
- Engineered a modular backend system supporting uploads, downloads, renaming, and organisation-level access control with user roles

PROJECTS

Official Fest Apps for BOSM '23, Oasis '23 and APOGEE '24 - Mobile Application Development

Feb 2023 - Mar 2024

- Built and deployed **Flutter** apps for **8K+** users, enabling **1.5Cr+** revenue through food ordering, ticketing, and event management tools
- Implemented Figma designs using custom painters and animations, creating responsive and visually engaging mobile app interfaces
- Developed QR-based ticket scanner, FCM-powered notification manager, and order management system for real-time event operations

Cancer Classification using CNN - Deep Learning

Mar 2025 - Apr 2025

- Trained MobileNetV2/V3-based skin cancer classifier with PyTorch achieving 68% accuracy through transfer learning and fine-tuning
- Applied class weighting, data augmentation, dropout, and ReduceLROnPlateau to tackle class imbalance and improve generalization
- Built custom dataset, DataLoader, and classifier heads, evaluated with confusion matrix and F1-scores to ensure real-world reliability

Investigating the Epigenetic Landscape of Severe Malaria - Data Analysis

Jan 2024 - Present

- Analyzed genome-wide DNA methylation in P. vivax isolates using Python, Bash, and CLI tools; paper currently in preparation
- Automated workflows and created custom scripts to run genomic tools and generate visualizations with matplotlib and Linux utilities

Command Line Based LLM Agent - AI/ML

Jul 2025 - Jul 2025

- Built a CLI-based LLM agent using Python and Gemini API with tool-use, memory, and file interaction for command-line automation
- Enabled directory crawling, Python script execution, and file editing through natural language using a dynamic agentic architecture

POSITION OF RESPONSIBILITY

APOGEE Joint Coordinator - Department of Visual Media

May 2024 - Present

- Led a 33-member tech team delivering apps, websites, games, and media for 9K+ attendees, contributing to over 2 Cr in festival revenue
- Directed cross-team coordination, set tech goals, managed timelines, and ensured high-quality deliverables across APOGEE and Oasis.

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