

ARNAV BHARTI

Pursuing Computer Science and Biological Science at BITS Pilani, India

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Academic Details

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering (Honours) in Computer Science

Master of Science in Biological Science

Graduating 2027

Pilani, Rajasthan

Kothari International School, Noida

All India Senior School Certificate Examination – 94%

All India Secondary School Examination – 98.5%

Apr. 2019 - June 2022

Noida, Uttar Pradesh

Summer Internship / Work Experience

MASTH Life – Ultrahive Healthcare Pvt Ltd

SDE Intern

May 2024 – Jul. 2024

Remote

- Implemented backend for multi-tenant authorization and **CRUD** document management system for a **RAG** web app.
- Designed and implemented 11 **OpenAPI** specification **RESTful APIs** using **Django** Rest Framework in **Python**.
- Designed & normalized the database schema and integrated **Gemini API** for LLM & **LangChain** API for retrieval.

Finoq Eduversity Pvt Ltd

Android App Developer

Jul. 2024 – Aug. 2024

Remote

- Developed an Android app using **Kotlin** & **Jetpack Compose** to deliver notifications and show webinars and events.
- Delivered notifications using **Firebase Cloud Messaging**. Follows Modern App Architecture & dependency injection.
- Made API calls using Retrofit and cached data using Room. Synced data in background using WorkManager.

Projects

Department of Visual Media, BITS Pilani

Mobile App Developer

Feb. 2023 – May 2024

Pilani, Rajasthan

- Developed iOS and Android apps using **Flutter** for college fests serving **8000** users generating **INR 1.5Cr+** revenue.
- Implemented event management system, notification system and food ordering system to facilitate fest experience.
- Implemented college navigation by **Google Maps** API, authentication by **Google Sign-In** & FCM notifications.

Web Application for Perceptron Machine Learning Model | Python, numpy, pandas, Next.js

November 2024

- Coded a Rosenblatt perceptron model, trained it on Iris dataset and created an API to predict species using the model.
- Created the back-end using Django and SQLite. Deployed the API and database on DigitalOcean & frontend on Vercel.

Research

Investigating the Epigenetic Landscape of Severe Malaria

Jan. 2024 - June 2024

- Analyzed genome-wide methylation of *Plasmodium vivax* clinical isolates. Accepted for Proceedings of Malaria Journal.
- Analyzed 60GB+ DNA data efficiently and generated plots using Python and libraries such as **matplotlib** & **pandas**.
- Automated analysis tools using **Python** and **Bash** scripts. Increased workflow speed using **GNU/Linux CLI** tools.

Position of Responsibility

Department of Visual Media

Joint Coordinator

May 2024 – Present

BITS Pilani

- Led 33 people in developing apps, websites & videos for **7000** attendees of Oasis 2024, BITS Pilani generating INR 85L.

Relevant Coursework

Computer Programming, Object Oriented Programming, Logic in CS, Discrete Structures in CS, Digital Design.

Technical Skills

Languages: Python, Java, Javascript, Dart, C, SQL, HTML, CSS

Technologies: Flutter, Django & Django REST Framework, React, Next, Firebase, Git, Linux, Jetpack Compose

Certification

- Supervised Machine Learning: Regression and Classification (Stanford University)

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