ARNAV BHARTI

Pursuing Computer Science and Biological Science at BITS Pilani, India

📞 +91 97737 00286 ✉ f20221585@pilani.bits-pilani.ac.in 🔗 linkedin.com/in/arnavbharti01 ⬡ github.com/arnavbharti

Education

Birla Institute of Technology and Science, Pilani	**Oct. 2022 – Present**
Bachelor of Engineering in Computer Science	*Pilani, Rajasthan*
Master of Science in Biological Science	

Kothari International School, Noida	**Apr. 2019 - June 2022**
All India Senior School Certificate Examination – 94%	*Noida, Uttar Pradesh*
All India Secondary School Examination – 98.5%	

Relevant Coursework

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

Experience

MASTH Life – Ultrahive Healthcare Pvt Ltd · **May 2024 – Jul. 2024**
SDE Intern · *Remote*
- Implemented backend for multi-tenant authorization and **CRUD** document management system for a **RAG** web app.
- Designed and implemented 11 **OpenAPI** specification **REST**ful **API**s 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 · **Jul. 2024 – Aug. 2024**
Android App Developer · *Remote*
- Developed an Android app using **Kotlin** & **Jetpack Compose** to deliver notifications and show webinars and events.
- Used **Firebase Cloud Messaging** to deliver notifications. Follows Modern App Architecture & dependency injection.

Projects

Department of Visual Media, BITS Pilani · **Feb. 2023 – May 2024**
Mobile App Developer · *Pilani, Rajasthan*
- Generated **INR 1.5Cr+** revenue developing iOS and Android apps for college fests serving **8000** users using **Flutter**.
- Implemented college navigation service by **Google Maps** API, authentication by **Google Sign-In**, **TOTP** based QR.
- Implemented event management system, notification system and food ordering system to facilitate fest experience.

Website 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 **Flask** 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. Used Oxford Nanopore tools *e.g.* Guppy, etc.
- Analyzed 60GB+ DNA data efficiently and generated plots using Python and libraries such as **matplotlib** & **pandas**.
- Created **Python** and **Bash** scripts to automate analysis tools. Used **Linux CLI** utilities to increase workflow speed.

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) · *Issued June 2024*

Leadership

Department of Visual Media · **May 2024 – Present**
APOGEE Joint Coordinator · *BITS Pilani*
- Led the development of **3 mobile apps** for **7000+** attendees of Oasis 2024, BITS Pilani's festival generating **INR 85L**.