Harshita Kalani

Final | Computer Science & Engineering | IIT Jodhpur
kalani.1@iitj.ac.in | +917239860690

EDUCATION

IIT JODHPUR
B.Tech in Computer Science
Cumulative CGPA: 8.51/10
May 2023 | Jodhpur, India

MGPS, JAIPUR
May 2020 | Class 12 | 95.2%
May 2018 | Class 10 | 95.8%

SKILLS

LANGUAGES
Proficient
Python •C •C++ •Kotlin •Swift
Familiar
Fortran •JS •MySQL •LaTeX •Dart

DEVELOPMENT
Kotlin Multiplatform •Django •Flutter
NodeJS •Git •HTML •CSS
MongoDB •Firebase •Github

OTHER SKILLS
• App Development (Android & iOS)
• Full Stack Web Development
• Competitive Programming
• Machine Learning
• Public Speaking

LINKS

Portfolio:// HarshitaKalani ⌕
Github:// HarshitaKalani ⌕
LinkedIn:// HarshitaKalani ⌕
GfgPractice:// HarshitaKalani ⌕
Interviewbit:// HarshitaKalani ⌕
CodeChef:// HarshitaKalani ⌕

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Machine Learning | Database Systems
Operating Systems | Compiler Design
Computer Networks | Cryptography

MOOCS
Kotlin Multiplatform by JetBrains ⌕
Flutter & Dart | Udemy ⌕

EXPERIENCE

SDE INTERNSHIP | WARNER BROS. DISCOVERY
Kotlin multiplatform (android and iOS) POC
•Designed and implemented PIR as a shared source using Kotlin multiplatform.
• Demonstrated a compelling Proof of Concept by enabling seamless sharing of PIR calls in the Max application for both Android and iOS platforms.
Tech-Stack: Kotlin, Swift, Ktor, SqlDelight, SPM, cocoapods

COMPILER DEVELOPER | LFORTRAN | NUMFOCUS
Open source development
• Contributing to the development of Lfortran, a modern Fortran compiler. Specifically focused on AST to LLVM compilation and integrating SciPy intrinsic functions like maxval, min, sign, etc.
Tech-Stack: Fortran, C++, Python

PROJECTS

OCR APPLICATION | Dr. Pushpendra Singh | April 2022 | ⌕
•Developed a dynamic mobile app with OCR technology, enabling extraction of text from images and converting it to .txt, .mp3, and .csv formats seamlessly.
•Streamlined user experience through Google authentication, gallery & camera uploads, one-tap text extraction, and text-to-speech features.
Tech-Stack: Flutter, Dart, Google ML Kit, Google Text to Speech, Firebase, Firestore, Google Cloud Storage, and Imgur API

QUIZON: QUIZ CONDUCTING WEB PLATFORM | Dr. Somitra Kumar Sanadhya | December 2021 | ⌕
•Developed a user-friendly web platform for quizzes with separate student teacher interfaces, LaTeX integration, efficient quiz conduction, and detailed post-quiz analysis.
Tech-Stack: Django, Rest- API, HTML, CSS, Javascript.

COVID-19 DETECTION USING CHEST X-RAY | Dr. Richa Singh | April 2022 | Dataset ⌕ | Website ⌕ | ⌕
•Trained Deep Learning models (VGG-19, EfficientNet B3, ResNET-50, etc.) to detect COVID-19 infection using chest X-Rays. Conducted EDA, applied Lung Segmentation with U-NET, and used PCA for dimension reduction.
Tech-Stack: Python, OpenCV2, Keras, Pandas, NumPy, Matplotlib

ACHIEVEMENTS AND ACTIVITIES

• **Physics Wallah:** Conducted career guidance workshops for JEE aspirants.
•**Teaching assistance** in both DSA and ML course for 250+ students.
• Successfully cleared all rounds of the **Jumpstart hackathon** ⌕ by Publicis Sapient, securing a spot on the exclusive guest list for their tech extravaganza.
• Secured A (Outstanding) in both **DSA** and **ML** course.
• **GFGPractice and Interviewbit** : Solved 1000+ DSA problems.

EXTRACURRICULAR

• **Head,** Entrepreneurial Team, Prometeo'23
• **Student Guide,** Student Well-being Committee, IITJ
• **Content Head and Mentor,** Pheme & core member of Music Society, IITJ