Pranav Goswami

PreFinal | Computer Science and Engineering | IIT Jodhpur

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EDUCATION

Indian Institute of Technology Jodhpur, India Nov 2020 - Aug 2024
Bachelors of Technology in Computer Science and Engineering Current CGPA: 8.82/10.0

St. Mary's School, Ahmedabad June 2008 - April 2020
Higher Secondary Education Percentage: 92.33%

EXPERIENCE

Lfortran | Compiler Developer Internship Aug 2022 - Present
C++, C, Python ⃝

- Contributing to the development of lfortran compiler using gfortran and llvm backend for an efficient compilation of SciPy files under Ondrej Certik.
- Responsible to catch and resolve various semantics errors during conversion of AST to ASR frontend to LLVM backend.

PROJECTS

OCR Application | Dr. Pushpendra Singh April 2022
Flutter, Dart, Google ML Kit, Text to Speech, Firebase, Firestore, Google Cloud Storage, Imgur API ⃝

- Lead a team and implemented a pipeline to extract text from images using OCR & convert it to .txt, .mp3, .csv format, ans integrated in a mobile app.
- Simplified login via google authentication, easy upload from gallery & camera, one tap text extraction, text to speech.

QUIZON: QUIZ CONDUCTING PLATFORM | Dr. Somitra Kumar Sanadhya December 2021 - Ongoing
Django, Rest- API, HTML, CSS, Javascript ⃝

- Innovating a user-friendly Ed-Tech web platform catering to all possible requirements in online mode of education.
- Consists separate interface for student & teacher, LaTeX integration during question formation, efficient quiz conduction, detailed post-quiz analysis, etc.

Garva | Board of Literary Affairs IITJ June 2022
Django Rest Framework, REST-API, ReactJs Website ☑ | ⃝

- Build up a web-platform to conduct National level competitions through 75th Aazdi ka Amrit Mahotsav.
- Facilitated smooth registration & submission of various events, detailed event description with more than 200 registrations and over 100 submissions.

Covid-19 Detection using chest X-Ray | Dr. Richa Singh April 2022
Python, OpenCV2, Keras, Pandas, NumPy, Matplotlib Dataset ☑ | Website ☑ | ⃝

- Trained deep learning models like VGG-19, EfficientNet B3, ResNET-50, etc after in-depth analysis to detect covid 19 infection using the chest X-Ray after Lung Segmentation using U-NET & dimensionality reduction using PCA, etc.
- Achieved accuracy of **96.4%** on pre trained U-NET model after lung segmentation.

ACHIEVEMENTS

- Secured **1st** place amongst the only **6** students to receive **A** out of 240 students in DSA course.
- Achieved **Rank 1** in Machine learning course among batch of 240 students.
- Solved 500+ questions of DSA, **Global rank 3892** on interviewbit.
- Codechef: Highest rating of 1766 (3 star) and Division-2 Programmer.

TECHNICAL SKILLS

Skills : Full Stack Web, Application Development, Data Structures & Algorithms, Compiler Development, Machine Learning.
Languages : Python, C++, Dart, Java, Javascript, MySQL | **Frameworks:** Django, Flutter, ReactJS
Miscellaneous : Git, Github, Firebase, REST-API, Google Cloud
Libraries : Pandas, NumPy, Matplotlib, Seaborn, Sklearn, PyTorch, Keras/tensorflow

RELEVANT COURSEWORK

Computer Science: Data Structures and Algorithms, Databases, Operating Systems, Machine Learning
Mathematics: Probability Statistics & Stochastic Processes, Maths for Computing

POSITIONS OF RESPONSIBILITY

- In-charge **Internship Executive**, **CDC**, Career Development Cell IITJ.
- Designated as **Head Web-Development** for **Sandstone 3.0** at IITJ.
- Appointed as **Digital Media Head, Pheme** the newsletter club at IITJ.
- Elected as **Assistant Head, Tech Team**, **Prometeo'22**, the annual technical and entrepreneurial fest of IIT Jodhpur.