Pratyush Ranjan

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Interests

Theoretical Mathematics, Algorithms and Implementation, Deep Learning optimised models, Computer Vector Graphics.

EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution(Board)	CGPA/%
July'19 – Present	B.Tech, ME	Indian Institute of Technology, Kanpur	8.74/10.0
2018	AISSCE – XII	KV IFFCO Aonla, Bareilly (CBSE)	92.8%
2016	CBSE – X	KV IFFCO Aonla, Bareilly (CBSE)	10.0/10.0

Work Experience

Trariti Consulting Group (TCG)

India

 $Machine\ Learning\ Intern$

- June 2020 July 2020
- \bullet Summer Intern continued as a ML developer.
- Worked on a web based ML tool for predicting personality from the video analysis of candidate.
- Implemented **OpenCV** for facial landmark detection to predict real-time emotions occurring on the face.
- Calculated facial cues from the already detected emotion for every frame of the video based on FaceTube paper.
- Applied **Tensorflow** and **XGBoost** model for training and predicting personality based on evaluated facial cues.
- Evaluated test set with above 90% accuracy.

Trariti Consulting Group (TCG)

n pranjanpr/Ehealth

 $Frontend\ and\ Backend\ Development\ Intern$

July 2020 ACA Se

- Constructed a full stack E-health startup website based on ReactJS frontend framework.
- Devised user side login and sign up functionality aided with specialist login, sign up and email verification.
- Incorporated React based **Stripe API** for the payment.
- Fully synchronised the Frontend part with **Django** backend including proper payment canal.

SKILLS

Proficient: C/C++, JavaScript, Python, GoLang ML: TensorFlow, Keras, MATLAB, OpenCV, Julia Web: ReactJS, Django, React Native, TypeScript, Redux Utilities: Shell Utilities, Git, Yarn, Anaconda, Ubuntu, Heroku, LATEX, AutoCAD

Positions of Responsibility

- Secretary, Entrepreneurship Cell, IIT Kanpur 2020-21 Coordinated and communicated with startup companies for student internship program at IIT Kanpur. Helped in managing various talks from CEOs and top startup founders in India.
- Secretary, Fine Arts Club, IIT Kanpur 2020-21
 Organized and conducted workshops on Sketching and
 Origami Art during the online semester.
 Provided guidance to freshmen students enthusiastic about art by conducting introductory sessions.
- Council Secretary, Media and Cultural Council, IIT Kanpur 2020-21

Helped in managing finance and logistics for the council.

PROJECTS

FullStack Blogs Web-App

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Self Project

July, 2020

- Created a Full Stack web application for users to signup/login and post blogs based on **Django backend** and simple HTML/CSS and **JavaScript**.
- Added email verification from Gmail ID for user signup and forgot password functionality.
- Used default Django Admin console to moderate user profiles and modify user permissions and view active/inactive status.
- Added sorting algorithms to sort blogs of different users by date, also added change username and profile picture functionality.

ACA Semester Project

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 $Member\ WTD,\ IIT\ Kanpur$

Jan-2020

 Worked on a ToDo application (WTD) and devised clickable components and screens using React-Native framework.
 Optimised for both Android and iOS.

Basic Competitive Programming

IIT Kanpur Summer'2020

 $Programming\ Club$

 Learned concepts like Breadth First Search, Depth First Search and Dynamic Programming during summers in C++.

Scrapper

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Programming Club

Feb'2020

• Developed a scrapper file using Beautiful Soup to extract the details of selected participants in G'SOC from IITK.

SCHOLASTIC ACHIEVEMENTS

- All India Rank 3395, JEE Advanced (amongst 160,000 candidates).
- KN Saluja Scholarship 2019, for academic achievement in the year 2019-20 (top 2 students of Civil Dept in a batch).
- Awarded as Magna-cum-Laude (top 15%) during internship @TCG.,
- All India Rank 43, COMEDK-2019 (amongst 70,000 candidates).

Miscellaneous

- Read various research papers like **FaceTube** and **Vector Graphics Rasterization**.
- Contributed to Open Source projects like Material-UI.
- Completed Hactoberfest 2020 successfully by contributing four pull requests.
- Currently 3* on CodeChef.
- Built my personal portfolio website using ReactJS.

Relevant Courses