

PRATIK KATTE

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★ PROFILE

I have more than 2 years of experience working in the data science domain. I have a comprehensive background in projects working in Python, Computer Vision, Natural Language Processing, Geographic Information systems, and also have experience working in ed-tech, Ag-tech, fin-tech, and health-tech-based organizations.

PROFESSIONAL EXPERIENCE

Research Engineer

Niramai Health Analytix
Jan 2020 - Current

- Contributed to developing a desktop application to help technicians capture images using a thermal camera.
- Worked on creating and developing a product "Niramai Fever Test" which helps in detecting the fever of a person. The product is deployed at 30+ locations across India.
- Contributed to developing and implementation "Respiratory rate analysis using temperature data".

Co-Founder

Getrewind
May 2019 - Dec 2019

- Built a waste management marketplace where people throwing scrap were connected to entities collecting scrap.
- The platform engages with the established traditional kabadiwala network of people at the ground level, in order to collect the consumer scrap.

INTERNSHIP EXPERIENCE

Data Science Intern

L.V. Prasad Eye Institute
June 2018 - August-2018

- Developed a conversational chatbot for a doctor appointments and patient education. Deployed on a website serving approx 500visitors per day.
- Developed a data syncing service between the pupil-plus product and azure storage using python
- Contributed to developing a user interface on the resource-constrained pupil-plus product.

Data Science Intern

Flexiloans Pvt. Ltd.
Feb 2018 - March
2018

- Document classification using naive Bayes classifier with 95% accuracy.
- Extracted information from bank cheque.
- Python script for extracting locality, city, state, country, and pin code from address.

Data Science Intern

Prakshep Pvt. Ltd.

June 2017 - Jan 2018

- Measuring the size of an object using a reference object in an image.
- Implemented a paper "Automatic cloud removal for Landsat 8 OLI images using cirrus band". Used linear regression algorithm.
- Developed a GIS for working with maps and geographic information.
- Used GeoServer and GDAL to share, edit and process geospatial data.

Software Development Intern

Physzok Learning Solutions

Dec 2016 - Jan 2017

- Multiprocessing python script to scrape images from the web.
- python scripts for parts of speech tagging and chunk extraction from the research content.

Project Intern

Xerox Research Center

India

Jun 2016 - Jul 2016

- The objective of the project was to develop an educational platform for students in Uttar-Pradesh and Bihar.
- Developed textual, video lectures and designed the whole curriculum and course schedule for the subject "Programming with C++".



PROJECTS

Image Restoration

Bachelors Project

- Single model for photographic noise removal, de-noising synthetic Monte Carlo images, and reconstruction of undersampled MRI scans.
- Used state-of-the-art U-Net architecture for image restoration tasks.
- Digitizing the traditional instrument used by an optometrist for measuring the forward displacement of the eye in Exophthalmos.
- Used the k-means clustering algorithm to extract the front part of the eye. Developed a working 3-D printed prototype in 5 days.

Digital

Exophthalmometer

Engineering the Eye - Hackathon

- Developed an attendance tracking android application based on iris recognition technology for MGNREGS.
- Implemented iris recognition algorithm(Daugman Algorithm) based on the theory proposed by Daugman, in python

Iris Recognition System

Smart India Hackathon



Conference Talks

- **Talk** on "Niramai Fever Test: Automated Screening for COVID Symptoms" @Wolfram Technology Conference- 2021.
- **Talk** on "Machine learning for Covid-19 detection" at Data Science Conference, Europe - 2021
- **BLOG** ; I write about my world wonderments [here](#)



EDUCATION

2015 - 2019

Bachelor of Engineering in Information Technology

University of Mumbai