PRATIK KATTE

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⭐ PROFILE

I have a comprehensive background 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".

Founder (stealth mode)
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
Phyzok 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.

Digital Exophthalmometer
Engineering the Eye - Hackathon

- 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.

Iris Recognition System
Smart India 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

Other Projects

- https://github.com/pratik4

🎓 EDUCATION

2015 - 2019

Bachelor of Engineering in Information Technology
University of Mumbai

2013 - 2015

Intermediate
D.B.F Dayanand college of Arts and Science

EXTRA CIRRUCULAR

Skills
- **Programming Languages** - Python, C#, C++, Nodejs, Reactjs
- **Platform** - Linux, Windows, AWS, Azure
- **Languages -** English, Hindi, Marathi, Kannada
- **Workshop:** National workshop on quantum computing, IIIT-H, etc.

Affiliations
- Founder, InfiTechies @RGIT
- Member, Incubator @RGIT
- Member, PyData Mumbai

Miscellaneous
- Talk on "Fundamental concepts of computer vision" @BangPypers - Bangalore.
- [blog] https://towardsdatascience.com/demystifying-deep-image-prior-7076e777e5ba

SOCIAL

- **Github - github.com/pratik4**
- **Blogs -pratikkatte.substack.com**
- **Twitter - twitter.com/pratik_katte**
- **LinkedIn - linkedin.com/in/pratikkatte**