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AAKASH JHAWAR
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EDUCATIONAL QUALIFICATIONS

Year	Degree	Institute/School	CGPA / %
2016-2020	B. Tech (Electronics & Communication Engineering)	The LNM Institute of Information Technology, Jaipur	7.49
2016	Senior Secondary (XII)	Eden International School, Bhilwara	84.8%
2014	Secondary (X)	St. Anselm's Sr. Sec. School, Bhilwara	8.8

WORK EXPERIENCE

Machine Learning Intern - IDfy, Mumbai (*May'19–July'19)*

IDfy builds products for person identification, authentication and fraud detection

- Developed in-house OCR using Transfer Learning and increased revenue of the product by 70%
- Built Aadhaar Number Masking Service with an accuracy of 98.76% and a TAT of 1.04 sec
- Implemented RabbitMQ message queues, created and maintained Docker containers on GCP clusters

Web Developer Intern - IDfy, Mumbai (*May'18–July'18)*

- Increased email deliverability rate by implementing Gmail API
- Revamped usage of Google Maps Static API in web app and reduced cost
- Implemented and integrated MailCatcher to test sending email

KEY PROJECTS

Identify Commercial Centers using Point of Interest (*Sep'19–Oct'19)*

Technologies Used: Python, Scikit-learn, Gmplot, Overpy

- Gathered all Point of Interest (POI) using OpenStreepMap Overpass API
- Removed outliers from the dataset using DBSCAN and created clusters based on amenities using K-means
- Used Convex Hull to convert cluster of points to polygon and plot the polygons on Google Maps using Gmplot

Face Recognition (*Mar'19–Apr'19)*

Technologies Used: Python, OpenCV, Keras, Tensorflow

- Extracted face embeddings for each face in the dataset using pre-trained OpenFace model
- Trained a Neural Network on the face embeddings to recognize faces with an accuracy of 90%

Fotoxo – A Photo Storing App (*Feb'19-Mar'19)*

Technologies Used: Ruby on Rails, PostgreSQL, AWS S3, Sendgrid, Heroku

- Implemented Sendgrid for sending account verification emails
- Used Stripe for receiving card payments from users and AWS S3 Bucket for storing images in production

TalkCube - A Group Chat Web App (*Jan'19–Feb'19)*

Technologies Used: Ruby on Rails, PostgreSQL

- Achieved real-time messaging by implementing WebSockets with Action Cable
- Uses Devise gem for authentication and Semantic UI framework for front-end development

Sudoku Solver using OpenCV (*Nov'18-Dec'18)*

Technologies Used: Python, OpenCV, Keras, Tensorflow

- Extracted sudoku from an image by cropping and warping the largest contour detected in the image
- Trained a Neural Network over 60,000 images to identify each digit and store it in a 2D matrix
- Final solution of sudoku is calculated using Backtracking Algorithm

ACHIEVEMENTS

- Won the first prize in a 36hours Hackathon at IDfy, Mumbai
- Secured 23rd/3740 in Analytics Vidhya - India ML Hiring Hackathon 2019

COURSES

Machine Learning A-Z (Udemy), Deep Learning A-Z (Udemy), CNN for Visual Recognition (CS231n Stanford), Machine Learning (Andrew Ng), Deep Learning Specialisation (Andrew Ng), RoR Developer Course (Udemy), React (Udemy)

SKILLS

- **Programming Skills:** Python, Ruby, Golang, C, SQL, MATLAB
- **Other Skills:** Tensorflow, OpenCV, Docker, RabbitMQ, OMNeT++, Git, Heroku, Adobe Illustrator

LINKS

- **LinkedIn:** linkedin.com/in/aakashjhawar
- **GitHub:** github.com/aakashjhawar
- **Github Page:** aakashjhawar.github.io
- **Medium Blogs:** medium.com/@aakashjhawar