

YOGESH PATODIA

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EDUCATION

SRM Institute of Science and Technology

May'19

Bachelor of Technology, Computer Science Engineering, CGPA 9.22/10

Kattankalathur, Chennai

Relevant Coursework : Algorithms, Data Structures, Operating Systems, Software Principles, Machine Learning, Artificial Intelligence, DBMS

PROFESSIONAL EXPERIENCE

Tata Consultancy Services

Jun'19 - Present

Systems Engineer, Alpha Bancs Innovation Lab

Bangalore

- **D.I.E.T:** Designed and created a Digital Information Extraction Tool using Python and Django which extracts data from pdf for user-defined attributes by evoking the most fitting component in the pipeline using the defined configuration files. The developed primary components were: parsers, table-detectors, table-correctors, header extractor, entity recognition, regex searches, entity extractor, dependency parser, output setters.
- **Table Detection Algorithm:** Improved the table identification functionality of Tabula by developing an area detection algorithm which implements backtracking and takes hint from block world problem to find the optimal table in a pdf.

Tata Consultancy Services

Jan'19 - April'19

Intern

Bangalore

- **Header Identification System:** Created a web application using python, Django to upload pdfs using Postman API, extract data by identifying header and sub-headers in the pdf using a "decision-tree" model with 93% accuracy. The features were extracted using "pdfminer" and "spacy".
- **Web Crawler:** Created to update client whenever new tenders are uploaded on a government website, post the information on Postman API via REST services through a web application developed using python and Django.
- **Search Algorithm:** Developed a fuzzy search method using "Levenshtein" distance and "fuzzywuzzy" library to give search results even on providing incorrect input search words.

Matrix Media Pvt. Ltd

Jun'17

Intern

Kolkata

- **Application Development:** Developed a hybrid application using cross-platform app development software "Cordova" and "Ionic" for a resort allowing customers to make room reservations, check nearby tourist attractions and events to be held at the hotel and nearby places.

Videonetics Technology Pvt. Ltd.

Jun'16

Intern

Kolkata

- **Application Development:** Developed a SOS application using cross-platform app development software "PhoneGap" to navigate the user to the nearest police station and contact them saving the user from the hassle of selecting the nearest police station.

PROJECTS

• **Determining Preferred Living Location Based on Environmental Factors and Traffic Congestion Using IOT Sensors:** Use of "ARIMA" model to predict air index and noise index from data collected using air, noise, GPS sensors with ARDUINO board, attached on vehicles from most parts of the city and store in "ThingSpeak" cloud service to display real time data and analysis.

• **Voice Enabled Home Automation System:** Developed an Android application to operate fans and lights in a premise using voice commands via Bluetooth connection.

PUBLICATIONS

- "[A survey on methods of collecting Air and Noise Pollution data using IoT sensors integrated with Cloud Computing](#)", (1st Author) Eurasian Journal of Analytical Chemistry, 2018

TECHNICAL SKILLS

Python (Numpy, Pandas, Django, Scikit-Learn, Spacy), Java, C, C++, HTML, CSS, MySQL