ARPAN GHOSH

Software Developer with a total IT experience of 10 months. Possess Master's degree in Electronics and Tele-Communication engineering. Looking forward to learn and work on latest technologies.

PROFESSIONAL EXPERIENCE

PriceWaterhouseCoopers Pvt. Ltd. India, Technology Consultant, August 2018 – Present

	Project: Barcode detection and scan data from image					
Requirements	 The client needed a smart application such that Client upload barcode images; where an image can contain multiple stickers. Solution System can recognize the barcodes zone and scan the Barcode data and send to the frontend 					
Role	Developed multiple OCR systems using Tesseract, Google Cloud Vision API and custom OCR engine. Applied various image correction methods for optimal text recognition and barcode detection from complex images. Implemented text extraction from scanned-pdf using various OCR techniques. Was actively involved in designing solution architecture for the application. Did coding of the entire image pre-processing module using Python independently. Worked on troubleshooting and deployment of codebase. Implemented advanced image processing algorithms from research papers to extract, identify and recognize digits from electricity meter with high accuracy.					
Tools & Technology Used	Python, OpenCV, Numpy, Flask, Tesseract, Google Cloud Vision API					
- O	Project: Document Processing Tool					
Requirements	 This is a In house Project such that: Whenever any Invoice pdf is uploaded in the tool, it will automatically identified which Vendor category Invoice is that. Based on that, Solution system will identified certain key field like Invoice no, Date of purchase, Buyer name, GSTN no, etc. Extract Data from those key filed Return as Json 					

Role	Convert the Pdf into Images and using Machine learning Algorithm identified
	which page is invoice. Then Developed another Model to classify the vendor
	category .Create Template for different group of Vendors. After identification
	Vendor category of incoming invoice, based on that relevant template is apply
	and crop the key fields area and extracted the data send as Json
Tools & Technology Used	Python, Tesseract, SVM, Opencv, Flask

Project: Smart IT Ticket Management Tool					
Requirements	 This is a In house Project such that: To solve a problem like most of the incident ticket or service ticket is not routed to right service team. By the time it will reach to the proper team ticket issue create lot higher level trouble Solution system is aim to integrate with Service Now Chabot. In such way that whenever any user communicate with virtual bot regarding their issue based on their conversation relevant Ticket category is raised and route to the proper team. 				
Role	 Pulled the dataset directly from random service now using kaggle and tried to classify them using Machine learning techniques to make a labelled dataset. We just kept the description and categories from the ticket and went ahead with analytics on it to come up with top 5 categories for incidents. First, using NLTK'S WordNet to find meaning of the word, synonyms, and antonyms and use WordNetLemmatizer to get the root word. ML algorithm through which our model is able to deal with text classification Text classification A model which is trained on the historical dataset which can perform label predictions. 				
Tools & Technology Used	Python, Pandas, NLTK, Sklearn, CNN, Flask, Postman, Tensorflow				

Project: Utilization Management System						
Requirements	This is a In house Project such that: This system solve our company previous problem when every month utilization of every employee, competency maintain manually by excel sheet. This tool automate the whole process by communicate directly with database.					
Role	Developed Web service to maintain YTD Table, new joiner list, left joiner details using precision data from HR team.					
Tools & Technology Used	Python, Flask, Pandas, Microsoft SQL Server					

EDUCATION:

Degree	Institute/University	Subject	Marks(%percentage and CGPA)	Grade	Duration
Master of Technology	National Institute of Technology,Arunachal Pradesh	Mobile Communication and computing	7.9/10	1 nd class	2016-2018
Master of Science	REPE, CU, kolkata700131	Electronics and communication	72.5%	1 st class	2013-2015
Bachelor of Science	Acharya Prafulla Chandra College, WBSU, NewBarrackpore, kolkata700131	Electronics Science	51.13%	2 st class	2010-13
Class –XII	WBCHSE	Math, Physics, Chemistry Biology	63.34	1 st div	2010
Class –X	WBBSE	English,Bengali,physical science, Life science, History ,Geography	69.71	1 st div	2008

- In M.tech program: BIBD combinatorial based key Management for wireless sensor Network security at NIT Arunachal Pradesh
- M.sc: Nano silicon tube based solar detector using Porous silicon at IIEST, Shibpur
- B.sc: Arduino based robotic arm 360 degree movement feature.
- Stood Topper of the batch in M.Sc. and Awarded with shri Aurobindo Gold medal for Academic excellence.
- A Conference paper on Nano optical fiber published in ACME 2016 in IIT Bhubaneswar
- "BIBD based Key management" a journal paper on Network security published in Springer 2018

SKILLS

- Language: Python, Node js, MATLAB Database: MySQL, Microsoft SQL Server
- HTML, CSS
- **REST framework: Flask**
- **Project Management Tool:** GitHub, SVN
- **Basics Machine learning**

Personal Aspiration:

- Machine learning
- Deep learning

PERSONAL DETAILS

- Name: Arpan Ghosh
- Date of Birth: 13 July 1992
- **Contact:** +91-9874679037
- E-mail: arpan.ghosh1992@gmail.com
- Address: Teen murty Apartment 355,2no. Motilala colony, Airport Gate,p.o Rajbati, Kolkata 70008