Vishal Babu *Nov10th, 1989* Sr. data scientist @ blackstraw.ai M.Tech (CSE), National Institute of Technology Karnataka, Surathkal vishalbabu.in@gmail.com

vishalbabu.in@gmail.com Singapore: +65-84555722 India: +91-8802901311

https://www.linkedin.com/in/vishalchak/ https://github.com/VishalChak

Profile Summary	5+ years of experience in Data Science & Development	
	Expertise in machine learning (ML), deep learning (L (NLP), Computer Vision, NLU, Auto_ml (TPOT, au intelligence (AI), and software engineering.	
	Worked extensively on python, pyspark, sparkML, Ne keras, and pytorch, Text mining using NLTK and sp AutoML using TPOT, Autokeras, and Autosklearn, NL	acy, NLP using Stanford NLP,
Education	M.Tech (CSE-IS) - 6.3 - (2013-2015) - National Institut Surathkal (NITK).	e of Technology Karnataka,
	B.Tech (CSE-IT) - 69.92 - (2007- 2011) - United Colleg Greater Noida (UCER)	e of Engineering & Research,
Technical Skills	Programming: Python, Java, PySpark, R and C.	
	Data Science: Machine Learning, Deep Learning, AI, neural network, sk-learn, spark, spark ML, pySpark, NLTK, Sql, TPOT, AutoKeras, Stanford NLP, Keras, Tensorflow, computer vision, PyTorch, BERT, etc.	
	Databases: MySQL, MongoDB & PostgreSQL.	
	Simulators: Wire shark, ns2, ns3, BookSim, NoCSim, GpNoCSim	
	Other: Git, Perforce, Svn, Tfs, EBit, Docker, web techn	ologies.
Professional Experience	Blackstraw.ai	Aug 2019 – Present
	At blackstraw I am working as a Sr. Data Scientist a projects like real-time object detection classification detection in manufacturing, and autonomous naviga machine translation etc.	as tracking (ODCT), Anomaly
	Equinix.	Sep 2018 – Aug 2019
	Worked as a Data Scientist. Responsible for end to end from POC to project delivery. At Equinix, I am response POC on it, convert POC into project or services and product.	ible to identify ML use cases, do
	Larsen & Toubro Infotech (LTI).	July 2016 – Sep 2018
	Worked as a Machine Learning Engineer. Respon	sible for doing RnD on new
	technology and end to end delivery from POC to responsible for doing R&D on new technology, understand problem statement from client, requirement prediction models, and deliver it as a product or as a ser	project delivery. At LTI I am convert data into information, gathering, design and implement

	AutoRABIT Inc.July 2015 – July 2015 – Jul	uly 2016
	Worked as a Backend Developer and developed modules, API calls by us Javascript, and Jquery. Here I have written API calls, designed services requirement and research-development-integration of the module from scratc During this period EZ check-in was done, user-based auto-commit done, deve integration of GIT, SVN, TFS, Perforce and written a wrapper for GIT hosted T	s as per h to end. elopment-
Professional Projects	Object detection classification and tracking (ODCT): In this use case, we have created a real-time object detection classification and system for BFL. This solution to identify treat by a camera and generate an a object detection, we have done transfer learning over YOLO (You only look darknet and trained a Deep-SORT (Simple Online and Real-time Tracking) in on mars and Nvidia AI city dataset. (YOLO, Deepsort, PyTorch, market 1501, darknet).	alert. For once) in
	Anomaly detection in manufacturing: We developed a pipe-lined solution for detecting anomalies in manufacturing computer vision and deep learning. The solution is based on Homomorphic filte deep convolutional generative adversarial networks (DCGAN) and works wel amount data as well. (Homomorphic filtering, DCGAN, MvTecAD, GAN, synthetic data generation)	ering, and 1 for less
	Ticket classification: In this project, our aim was to classify email based on the semantic informat sent this email to the appropriate person. We were getting this email into languages. So here we have written language detection, machine translation (Sec sequence RNN model), text cleansing, LDA and clustering. (LSTM, Sequence to sequence, Spacy, NLTK, Text analysis, Stanford-NLP).	multiple
	MEDS (India Automation):	
	MEDS is a data collection product of Morningstar. Every organization has their Annual reports/quarter report to the Stock exchange (SE) in PDF Morningstar takes these reports then extracts Face of the statement (Income s Balance sheet, cash flow, and Notes) from these reports then fetch data points extracted face of the statements and compare these data with earlier reported da We have Deployed ML models to automatically extract the face of the statement model for automatically extract data points from the table then matches these data with earlier reported morning star data point using machine learning. (Abby, SVM, random-forest TPOT, Autokeras, Keras, Flask, classification,etc)	f format. tatement, from the ata. nt and the
	LTI Corp (Travel Claim prediction):	
	Delivered classification model on employee travel claims based on the damachine learning (SparkML and SK-Learn).	ata using
	Applied novelty detection, Isolation forest and Box plot (Interquartile range) detect outliers using Machine learning (SK-Learn, NLTK, classification).	model to
	Machine Learning on Mosaic Decisions:	

[
	Mosaic Decision is a platform that serves business intelligence and analytics as a service. Integrated linear regression, decision tree regression models for Regression using machine learning (spark ML).
	Integrated Logistic regression, Decision tree classification, and random forest models for Classification using machine learning (spark ML).
	Integrated K-Means for clustering using machine learning (spark ML).
	Integrated correlation and dimension reduction for data understating and feature importance using machine learning (spark ML, sk-learn, and custom algorithms).
	For data preprocessing, integrated label encoder, one hot encoder, outlier treatment, null value treatment using machine learning (spark ML, sk-learn, and custom algorithms)
	For text mining integrated tokenizer (simple, regex and n-gram), word2vec, count vectorizer and tf-idf using machine learning (spark ML, sk-learn, and custom algorithms).
	Credit Information Report (CIR):
	In this project, we hit the Experian information bureau and fetch customer's financial information, based on this information we calculate credit score by a per-implemented scoring logic. It helps a particular entity (bank or financial institute) to make a relational decision on the customer. (Java, Python, ML).
	Customer Centricity:
	This project was the POC for a client. In this project, we hit the bureau and get the important information like contact info, address info etc. Based on this info we trace the person on social media like twitter, e-commerce and try to predict the next possible activities of the person and sent then the best possible offers or suggestions. (Python, ML, Spark-ML, Stanford-NLP, Spark-Streaming)
	Version Control management system:
	At AutoRABIT Inc it was my first project. Here I have done research on version control management systems and integrated almost all major version control systems like GIT, SVN, TFS and Perforce in the AutoRABIT. Now user can do test connection, resister repository, delete a repository, create a branch, delete branch and import branch, etc on the fly at any cloud by AutoRABIT (Java, git, svn, TFS, perforce, git hosted above aws, jQuery, HTML, CSS)
	EZ-Checkin:
	In this project, we have developed a module that connects Salesforce org to version control and synchronizes data between Salesforce org and version system. User are able to fetch the data according to specific commit, selective data or from head revision and commit to specific repo according to user need (Java, Version controls).
	User-Based-AutoCommit:

	User-based-Auto-Commit automatically triggered at the time of CI jobs. It fetches the data from the sandbox or from one org to another org and maintains the history of users based on the users. (Java, Version controls)
Extra-curricular Activities	Attended HiPC (High-Performance Computing) 2014 organized by IEEE and ACM at Cidade de Goa.
	Participated as a volunteer in ADCONS '13 organized by TEQIP II and IEEE Bangalore at NITK.
	Participated in two-day workshop on "Recent Developments in Software Testing at NITK.
	Participated in the workshop on Medical Image Computing at NITK.
Declaration	I hereby declare that all the information furnished above is true to the best of my knowledge and belief.
Date & Place	Pune (Vishal Babu)