CHIRAG LALWANI

A Solution Driven Professional experienced in Analytics and Data Science directed industry with 2 Research Papers and 1 In-filing USPTO ML Patent.

PERSONAL INFO

+91-9828592159
chirag32527@gmail.com
LinkedIn

PUBLICATIONS

[Patents]
- [Provisional] Chirag Lalwani, Avinash Ambale "System and Method for Automatic Taxonomy Generation of Unstructured Machine Data", in USPTO, October 2018.

[Research Paper]
- Chirag Lalwani, "Deep Convolutional Generative Adversarial Network to Design Non-Existing Clothing: A Research", in IRAJ Indexed Journals & IRF conference on ICITBDIT-2019.
- Chirag Lalwani," Visual Recommender System Using Similar Images", in NCETCE, August 2016.

TECHNICAL SKILLS

- Machine Learning
- Deep Learning
- Computer Vision
- Natural Language Processing
- Apache Spark
- Predictive Modeling
- Data Analysis
- Time-Series Analysis
- Sql, Neo4J, Solr
- AutoHotKey
- Web Scraping
- Analytical Visualization
- Data Structure
- Surface Automation
- Azure Cloud Services
  (Databricks Certified)

PROGRAMMING LANGUAGE

- Python
- C++
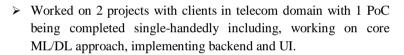- C

WORK EXPERIENCE

Sr. Business Analyst (Feb'19 - current)
Tata Consultancy Services

- Worked on multiple ML Proof-of-Concepts & consultancy with a main analytics Project for Leading Aerospace Manufacturing Client.

- Developed: - Continuous Authentication Systems using behavioral Patterns analytics using combination of Siamese Deep Learning and novelty detection algorithms. & One-stop solution for text Based querying system to different databases (Neo4J & Solr) using natural language processing & text mining

- Worked and contributed on various texts based analytics and pattern analytics tasks for big aerospace project using deep learning, time-series analysis and applying different predictive maintenance models.

- Contributed to a data engineering project to deploy transformation & pipelined model to Azure Cloud services using Apache Pyspark in databricks, data factory & data flow.

- Provided Technological consultancy support and trainings on Data science, Machine Learning to various accounts and verticals.

Lead Analytics & Data Engineer (Jun'17-Jan'19)
Pervazive Automation Solutions Pvt. Ltd.

- Worked on 2 projects with clients in telecom domain with 1 PoC being completed single-handedly including, working on core ML/DL approach, implementing backend and UI.

- Responsible for solving Computer vision AI problems, Analytical and pattern visualization, researching through the Machine learning algorithms and building prototypes for same using OpenCV, keras, NLTK etc frameworks.

- Completed a end-to-end PoC from working on core ML/DL approach, backend to frontend development in medical domain to automate classification chest-Xray diagnosis with a reliable practicing doctor.

- Led paid hands-on training program on Apache Spark framework for international clients.

- Worked on web-scraping service tasks on real-time from industrial websites using Python-selenium and applying text analytics on top of it for real-time targeting recommendations.

- Learned Python backend Technologies and Frontend technologies to build a representative Analytics POC's.

Data Science Intern (May'16-July'16)
Pervazive Automation Solutions Pvt. Ltd.

- Responsible for building AI based prototypes & understanding domain data

EDUCATION

B.Tech: Computer Science & Engineering
Rajasthan Technical University   (2013-2017)

- Qualified with Aggregate percentage of **81.74 %** with merit.
- Awarded with certificate of merit and scholarship in 1st, 6th and 8th semester.

Secondary & Senior Secondary
Kendriya Vidyalaya (CBSE)

- Qualified secondary with **9.6** cgpa with a certificate of merit & scolarship
- Qualified senior secondary with **89%** with a certificate of merit & scholarship.

Key Skills, Tools & Technologies Worked on

Tools:- Numpy, scipy, Theano, Tensorflow, Keras, Pandas, Scikit-Learn, Apache Spark, Pyspark, Opencv, nltk, Matplotlib, statsmodels, seaborn, beautifulsoup-bs4, selenium, tesseract, tabula, xgboost, Arima, Python-flask, AutoHotKey, Neo4j, Solr, Sql, Azure data factory, Azure Databricks.

Technologies:- Data Science, Machine Learning, Deep Learning, Data Mining, Predictive Modelling, Data Analysis, Data Mining, Data Visualization, Text Analytics, ETL, Computer Vision, Image Analytics, Natural language processing, cognitive automation, surface automation, Artificial Intelligence, Time Series Analysis, Azure cloud services, Web Scraping, Statistical Modeling, Statistics, Robotic Process Automation, Market basket analysis, Descriptive Analysis & modeling, Prescriptive Analytics & modeling, Azure Pipeline building, ETL.

Algorithms:- Data Structure, Supervised Machine Learning, Unsupervised machine learning, reinforcement learning, Generative adversarial networks, seimese neural network, Support vector machine, Bayesian algorithm, naive bayes, linear discriminant Analysis, Decision tree, random forest, logistic regression, clustering, monte carlo algorithm, Bias-Variance Trade Off, Xgboost, Bagging & Boosting Algorithm, K-nearest neighbor, apriori algorithm, fp-growth, association rule mining, convolutional neural network-CNN, recurrent neural network-RNN, long short term memory-lstm, artificial neural network- ANN, Fuzzy Logic, Ensemble Learning, Deep Belief Networks, Radial Basis Function, Non-Negative Matrix Factorization, Principle component Analysis, Bayesian Network, ocr.