

Aritra Chatterjee

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PROFESSIONAL SUMMARY

A professional in the field of Data Science, Api development, data engineering and dev ops with more than 10 years of experience. Exposure in Deep Learning & ML Algorithms , Rest Api using web application framework like Flask, shiny. Exposure in Cloud Infrastructure Automation using cloud services like (AWS, GCP) including cloud formation. Continuous Development using Jenkins | GITLab | GithubActions. Container building using docker and Unit Testing.

SKILLSET

Languages: Python , R, Javascript, Markdown languages.

Database: All Relational, cloud database.



Api Development: Flask, Django(Python). Api documentation using Swagger.

Cloud Infrastructure & Components: AWS and GCP. Including Cloud Formation using cloud template. Exposure in components like EC2, S3, ECS, lambda, Cloud Watch logs. Good Exposure in boto3 and aws cli. GCP cloud Components

CI/CD Infrastructure: Gitlab Pipeline | Jenkins | GithubActions.

Orchestrator: Databricks & Airflow.

2022/07 TO PRESENT: ACCENTURE PVT LTD.

-  **Client ANZ: Banking Domain.** Sas to Python Migration using AWS Cloud components.
 - a) Implementation of existing pipeline in python using package versioning system.
 - b) Deployment through OpenShift(similar to Kubernetes).
 - c) Work automation using Jenkins pipeline.
 - d) Deployment using AWS components like Fargate, S3, ECR, SNS, postgresql.
-  **Client HighMark: Insurance Domain.** Cobol(IBM Mainframe Legacy) to Python Migration using GCP components.
 - a) Implementation of existing pipeline in python using package versioning system.
 - b) Automated python library building and deployment on Databricks kubernetes pods.
 - c) Deployment and orchestration through Databricks.
 - d) Writing Yml files to automate the infrastructure around the source code and pipelines for better orchestration.

2020/03 TO 2022/07: L&T INFOTECH (CLIENT S&P GLOBAL).

- ✚ Planned, designed and implemented automated framework which takes json template as an input and applies transformation on dataset to generate the report in json which finally feeds the predefined tableau dashboard.
- ✚ Rule Based Template Framework is implemented in python using pyspark as data transformation library.
- ✚ Rule template is based on grammar of rule template. Its sample design/documentation can be found on this link.
- ✚ It's a generic data-quality rule based framework deployed in aws elastic container service(on demand) triggered by AWS lambda upon cloud watch logs of predecessor job which provides system argument information in terms of rules.json location(s3 bucket), dataset location (db information) with other metadata details to this pipeline.
- ✚ Automated Data Quality Report on Timeliness, Consistency and Accuracy using ML algorithm (Outlier; Anomaly Detection). Automated report using jupyter notebook and output in html report. Legacy automated report system also deployed in aws ecs container. Pandas as data transformation library.

2019/09 TO 2020/03: CAPITAL NUMBERS.

- ✚ Resume Match with Naïve Bayes Algorithm for automatic best match for any given resume. Rasa Chatbot Assistant for NOC Team, which help them to automate the internal customer service and Jira ticket Integration.
- ✚ Implemented Online Compiler for 14 different languages for inhouse project using sphere engine api, url creation (flask). Proper API Documentation(click on this link) using Rmarkdown/Swagger framework.
- ✚ Implemented Web Crawler with scrapy framework in python and scheduled the recrawl with cron jobs for specific domain frequency. Implementation is in Flask Framework.

2019/01 TO PRESENT: GSPANN TECHNOLOGIES.

- ✚ Involved in **Chatbot** project , develop components like automated text pop up with the help of word embedding. Intent redirection model.
- ✚ Complete Azure Automation including Scaling in and out for cost optimisation with Python. Aws automation using boto3 with Python.
- ✚ Developed Dash Application (**Flask** web application framework for **python**), which predict the features of an Image with Dress Type and other related feature like size, sleeve type. Use of **Keras** with **CNN** multi feature image classification.
- ✚ Colour Detection of an image(dress) using **OpenCV** by defining the colour ranges (256 different colours, by web scraping the RGB colour channels from specific URL

and then converting to BGR). Use of library like [beautiful soup](#)(web scrape) and then building the model from scratch to detect the colour.

2018/07 TO 2018/09: COLT INDIA PVT LTD.

- ✚ Consulted the company on Customer Churn management in their network lease line connection business. Find out the main reasons for churn from multiple data source. Find out the spread of maximum churn location wise (Visual, network graph and leaflet). The work was confined to Descriptive and Predictive Analytics. Prescriptive Analytics was out of scope.
- ✚ Use of Random Forest and Deep Neural network (Simple, fully connected) with keras to predict the customer churn and help management to take appropriate action.
- ✚ Complete Descriptive and Predictive Statistical Reporting using markdown and in HTML format.
- ✚ Developed Shiny application with the help of leaflet to show the location wise dispersion of customer and their network. Use of network Graph and various other graphical representation.

2012-17: ANALYTICS & MODELLING ANALYST; ACCENTURE INDIA

- ✚ Worked in Employee Attrition project, Workplace Survey Text Mining Project, IT Infrastructure Component like Database, Application Performance Project. Predicting the maximum occurrence of events/Incidents (probable) and resource allocation according to the spread of the events (given the resource constraint).
- ✚ **Exposure in Natural Language processing.** Was engaged in Text mining projects for over a period of 6 months in Accenture to help them to build automated Survey Reports. Feature engineering and Sentiment analysis. Tokenisation, n-gram, word cloud.
- ✚ **Algorithms / Techniques:** Image Recognition Using Tensorflow(High End API: Keras), Naive Bayes, Cluster Method (K means and Hierarchical), Logistic Regression, Gradient Boosting Method , Regression, Time Series (ARIMA), Random Forrest, Decision Tree, Bagging.
- ✚ **Data Mgmt & Visualisation** R and Python. Shiny and Dash web application Framework. Exposure to AWS web application hosting on linux operating system.

2011-2012: IT OPERATION ASSOCIATE; IBM GPS INDIA

- ✚ Manage the infrastructure support team, multiple vendors, and Client. Delivery of agreed services to the client by utilizing Resource and Capabilities at an optimal level to maintain the ITIL standard aligned with Client requirement.

2009-2011: FREELANCER

- ✚ Worked as freelancer with Evelyn, Chegg India in the domain of academics writing. Worked with as freelancer with Upwork in the domain of Analytics.

SPECIAL INTEREST: BUDDHISM

2017 Feb to 2017 Dec: Studies in Theraveda Bhuddhism(Hinya Tradition). Took time off for intense meditation in order to understand the subtler aspects of mind and its direct effect on human behavior. Deeper study in mind and matter phenomenon.

Went to remote meditation (Vipassana) camp across the country in order to study.

Dhamma Shikkara (McLeod Ganj), Dhamma Ganga(Kolkata), Dhamma Sikkim (Near Gangtok), Dhamma Sineru (Upper Samdong, Sikkim), Dhamma Bodhi (BodhGaya), Dhamma Sringar (Kathmandu, Nepal)

PERSONAL DETAIL

Date of Birth- 31st October 1985

Age: 37 years.

Email Id: richie.chatterjee31@gmail.com, richie.nirvikalpa@gmail.com

PAN Number: APTPC7093M

Voter ID: ARO2397909

Passport: P933859

HOBBIES

Trekking and Amateur Drummer

- 🚩 Trekked and climbed Stok Kangri (which is considered as the highest non-technical summit in India) in July 2016. Altitude is 6150 mtrs (20678 Feet)
- 🚩 I have trekked to Goechala (16000 feet) to witness the mighty Kanchenjunga in 2015.
- 🚩 Trekked in Roopkund in 2017.
- 🚩 Green Trail internship with India Hikes.
- 🚩 Kedarkantha Peak in December 2020. Kuari Pass (2021),