Ruchil Barya

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- Over 5 years of experience in IT industry as Business Intelligence Consultant, worked on GRC (Security) and SAP HANA directly with client as SAP (Germany)

EDUCATION AND HONORS

Harrisburg University Institute of Science and Technology   Harrisburg, PA
Masters in Analytics   Jan 2020-Aug 2021
- Cumulative GPA: 4.0/4.0
- Relevant Coursework: Machine Learning, Natural Language Processing, Time Series Analysis,Data visualization, Big Data Analytics, Optimization, Deep Learning

Barkatullah University of Technology   Bhopal, India
Distinction Bachelor of Engineering among Top 3   Aug 2009-Jun 2013
- Central Scholarship, Medhavi chatra Yojna (Awarded with 50% of college fee each year)

SKILLS

- **Programming Languages:** R**,** Python (eg. scikit-learn, numpy, pandas, matplotlib, Keras, Tensorflow), SQL
- **Data Science:** Machine Learning (Regression, Clustering, Classification), Natural Language Processing, Time Series Analysis, Predictive Modelling, Deep Learning, Probability, Recommendation Systems, Experimental design, Hypothesis testing, Git
- **Big Data Analytics:** Hadoop, Apache Hive, Apache Pig, PySpark
- **NoSQL:** MongoDB
- **Tools:** Power BI**,** AWS, Tableau
- **Certifications :** Machine Learning on AWS, Deep Learning Specialization

PROJECTS AND LEADERSHIP

Analyzing the effect of Social Media on Cryptocurrency Prices(Research Thesis)   Feb 2021- Present
- YouTube videos transcript along with Twitter tweets will be analyzed by Deep Learning Advanced Techniques (LSTM -RNN)

Predicted the number of COVID-19 cases and deaths in India and USA   May 2020-Aug 2020
And found the relationship between COVID-19 cases and deaths
- Time series analysis was used to predict the number of cases and deaths of COVID-19 -19
- Quadratic equation of time was used in linear regression, VAR, gradient descent was used to predict deaths
- SARIMA model was applied to reduce noise

Understanding how mental illness has been talked about over the years based on the NYTimes articles   Sep 2020-Dec 2020
- Analyzed over 12,000 articles mentioning mental illness
- Applied sentiment analysis to understand the tone of articles
- Factor analysis was used to understand the major topics discussed over the years

Recommendation system based on the movie titles and viewer's rating   Jan 2021-Feb 2021
- The model captured similarities between videos based on both title text and review histories in AWS Sagemaker
- Trained on a GPU instance while orchestrating from a small CPU instance
- Created a live CPU endpoint to generate prediction in real-time

Absenteeism amongst employees in a courier company   Sep 2020-Dec 2020
- Collaborated with 3 other colleagues to complete this project
- Applied different machine learning techniques to get the best results

Facial expression detection   Feb 2021-Mar 2021
- Applied CNN with Keras and Tensorflow to classify a happy face

Analyzed a use case architecture for a NoSQL database   Jan 2021-Mar 2021
- Presented a data architecture paper of Shutterfly when they migrated from Oracle to MongoDB

Analysis of Death and follow-up time period due to heart failure   May 2020-Aug 2020
- Prediction of the death event based on the follow-up time period when the patient has already suffered a heart attack

Screen Time on phone Analysis   May 2020-Aug 2020
- Usage of dashboarding techniques in R to visualize the screen time pattern

PROFESSIONAL EXPERIENCE

Ascii labs   **Baltimore, MD**
Data Science & Machine Learning Intern   Jan 2021- May2021

- Presented a proposal for the NARA search engine recommendation system based on collaborative filtering
- Designed experiments, tested hypotheses, and built predictive Models.
- Performed Forecasting, Clustering, Multivariate linear & logistic regression
- Presented the importance of MLOPs in Data Science Lifecycle to end clients
- Worked with partners to translate business challenges into Data Science problems
- Analysis and visualization of various statistical data related to Clients
- Enhanced development of Statistical & Data Visualization techniques to discover insights, patterns, and trends that turn data into insights
- Developed and tuned SQL queries to automate and improve data extraction from large data sets which enhanced the efficiency of the process.

Capgemini   **Bangalore, KA**
Business Intellegence Consultant   Jun 2018 -May 2019

- Administered and supported over 20,000 SAP accounts for more than 20 systems as subject matter expert for Governance Risk Controller and technical troubleshooting for complex authorization issues
- Presented a POC for the migration of old profiles to the Business role concept which received appreciation from the client
- Created organized, customized analysis and visualized projects and dashboards to present to Senior Level Executives.
- Identifying trends in support incidents/task for automation, thus reducing the incident count to 100-200
- Implemented Governance, Risks and Security to minimize security lapses and process handing
- Carried out independent research and innovation and technological domains while supporting existing projects
- Worked with strategic and analytics to improve yearly trends to increase client relationships, improve the customer base.

Tata Consultancy Services   **Bangalore, KA**
Analytical Consultant   Mar 2014 -May 2018

- Primary project person for the implementation of CBTA testing in authorization issues
- Collaborated with Agile Enablement practice team of coaches to adopt agile and transform the operations
- Creation of virtual authorization concept to restrict the user authorization on profitcenter basis
- Worked as part of remediation team and assist in the elimination of Segregation of Duties (SOD)
- Exclusively worked on objects to restrict access for reporting users and Setup security at the Info objects level
- Optimized data collection procedures and generated reports based on a weekly, monthly, and quarterly basis
- Experienced in data extraction, transformation, and loading (ETL) across different databases to SAP systems
- Develop policies and procedures for the collection and analysis of data