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# **EDUCATION**

Master of Science, Computer Science, 3.7 University of South Dakota, (2020 - 2021)

Bachelor of Technology, Electronics & Telecommunication, 3.74

Jaypee Institute of Information Technology, India (2012 - 2016)

## **SKILLS**

Languages: Python (Pandas, NumPy, Matplotlib, sympy, scikit-learn, Seaborn, TensorFlow, Keras, Django, Flask, Streamlit, os, Plotly, statsmodels), HTML, Markdown, JSON, YAML, Java, SQL, Bash, Git

Database: PostgreSQL, Elasticsearch, SQLite, sMAP

Cloud AWS: EC2, VPC, S3, EBS, IAM, SNS, Load Balancing, CloudWatch, Auto-Scaling, CloudFormation, RDS, DynamoDB, Sagemaker

DevOps: GitHub, Docker, Puppet, Grafana, Netlify

Tools: Jupyter Notebook, Tableau, Redash, Jira, Kibana, Google Data Studio, MS Excel, ServiceNow, VS Code, PuTTY, Postman, Gitbook, Lucidchart, WorkFlowy

Interests: Predictive Analytics, Machine Learning, Information Visualization, Statistical Modeling, NLP, Feature Engineering, Signal Processing, Web Scraping, Artificial Intelligence, Financial Analysis, Data Structures Algorithms, Applied Mathematics, Computer Vision

#### LEADERSHIP/ ACHIEVEMENTS

Beta Tester & Mentor at COURSERA, Aug 2017-Present. Acquired 80+ certifications from eminent universities and organizations via MOOCs in the field of technology, finance, and management.

Certified the Google IT Support Professional Specialization to advance in troubleshooting, customer service, networking, operating systems, system administration, and security, June 2020.

Content Creator of Python Data Science stack tutorials

SPOT Award for contribution in achieving desired Business Results, COGNIZANT, Nov 2017

Volunteer at COGNIZANT Outreach and USD Pantry. Summer Intern at ALCATEL LUCENT and CEL INDIA.

Digital & Social Marketeer for brands HAPPAY, AMBIPUR, GRADEUP and VIHA LIGHTS

# SHAURYA KHURANA

Data Scientist in LinkedIn GitHub





# **WORK EXPERIENCE**

Graduate Research Assistant, UNIVERSITY OF SOUTH DAKOTA, Jan 2020 - 2021

- Leveraged Smartsheets API to programmatically access hierarchical data and transformed it into a **user-interactive dashboard** for biomedical researchers.
- Invented a Python library REMAP to structure and sync data with **Elasticsearch**.
- Designed a data mining workflow for Biofilm Data & Information Discovery System.
- Built a web application 2DMatchecker in Streamlit for computing the characteristics of 2D material using Logistic Regression and K- Nearest Neighbors.
- Implemented an authentication gateway for Globus platform using Python SDK.

Data Analyst, ZENATIX SOLUTIONS, Gurgaon, India, Feb 2019 - Dec 2019

- Exploratory data analysis analyzed unstructured big-time-series from IoT sensors by data resampling, identified use cases by statistical modelling, and benchmarked data by detecting anomalies using **visualizations** for scalability across customers.
- Forecasted data like Energy Consumption, Energy Savings, Equipment Failures, Controller Health with over 95% F-score using Fourier Transforms and ARIMA.
- Optimized a K- Means clustering model to cluster appliances and scheduled timebased and temperature-based controls on them for reducing costs up to 30%.
- Streamed data by removing inconsistencies and structured it into metrics.
- Introduced a data extracting tool (DWYW) using ipywidgets for account managers.
- Refactored code by modularizing programs in **Diango** to clean and improve its internal structure, speeding up the development time by 150%.

Programmer Analyst, COGNIZANT, Hyderabad, India, Nov 2016 - Feb 2019

- Integrated multiple sources of leases data into one system using Pandas and SQL.
- Developed a dashboard in Redash to capture all customer's change requests.
- Accelerated Business intelligence reporting to assist clients with purchase-versusleasing decisions by utilizing IBM TRIRIGA SaaS, Python SciPy stack, and Tableau.
- Automated the process of loading leases data (.DIF files), reducing the time by 70%.
- Upgraded the KLT framework to fetch customer surveys by designing REST APIs, and mapped feedback into the application by incorporating the **Agile** approach.
- Innovated a data-driven model to determine the employee's incentive from tickets.
- Created Application, Database, Process, and BIRT servers in PROD and UAT environments for new clients using AMIs, CloudFormation, and Puppet.
- Designed auto-generated daily email reports like Disk Usage, CPU monitoring, and Server States with detailed analytics for management using Seaborn and Dynatrace.
- Expanded classification of log errors using regular expressions and defined user usage statistics across multiple servers, to speed up hotfixes and patching by 80%.

## **INDEPENDENT PROJECTS/ TOOLS**

- COVID -19 dashboard for visualizing trend worldwide and predicting recovery rate with up to 90% accuracy using Polynomial Regression, and Cross-Validation scheme.
- Genetic Algorithms automated simulations in Matplotlib for solving NP-complete problems efficiently like Travelling Salesman Problem and String Matching.
- Edge Map detection in Chest Radiographs for understanding abnormalities with Image Processing techniques and Deep Learning Convolutional Neural Networks.
- Reading Digital Certificates with template-based matching using OpenCV and OCR.
- NSE Equity Analyzer stocks screener, IDK-GST GST bill calculator, Scholar sheets -Kindergarten worksheets, Music Jambox - scrape lyrics & artists info, Resume Parser.