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SHAURYA KHURANA

Software Engineer

https://shauryakhurana.netlify.app/

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), HTML, Markdown, JSON, YAML, JAVA, Bash, Git, SQL

Database: PostgreSQL, MySQL, sMAP, Elasticsearch

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

DevOps: GitHub, Bitbucket, SourceTree, Docker

Tools: Jupyter Notebook, ServiceNow, Jira, WorkFlowy, Trello, Tableau, MS Excel, VS Code, PuTTY, WinSCP, Grafana, Postman, Confluence, Google Data Studio

Strengths: Predictive Analytics, Machine Learning, Information Visualization, Statistical Modeling, Project Management, Feature Engineering, Web Scraping, Artificial Intelligence, Financial Analysis, Data Structure Algorithms, Computer Vision, NLP

ACHIEVEMENTS

Acquired **80+ certifications** from esteemed universities and organizations via **Coursera** 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*

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

EXTRACURRICULAR ACTIVITIES

Beta Tester & Mentor at COURSERA
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
Designing Python data science stack tutorials

WORK EXPERIENCE

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

- Leveraged Smartsheets API to programmatically access hierarchical data and transformed it into 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 materials using Logistic Regression and KNN clustering.
- Developed 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 data by data normalization, identified use cases and benchmarked data by statistical testing, and detected anomalies by information visualizations for scalability across customers.
- Forecasted data like Energy Consumption, Energy Savings, Equipment Failures, Controller Health with over 95% accuracy using Fourier Transforms and ARIMA.
- Deployed a machine learning model to classify appliances across sites and scheduled time-based 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 Django to clean and improve its internal structure and speed up development time in the long run.

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 Streamlit to capture all customer's change requests.
- Accelerated Business intelligence reporting to assist with purchase-versus-leasing decisions by utilizing Python analytical libraries, IBM TRIRIGA SaaS and Tableau.
- Automated the process of loading leases data (.DIF files), reducing the time by 70%.
- Upgraded the framework by designing REST APIs to fetch customer surveys, and mapped feedbacks with the KLT application.
- Innovated a data-driven model to determine the incentive for employees.
- Created Application, Database, Process, and BIRT servers in PROD & UAT environments for new clients using AMIs, CloudFormation and Puppet.
- Designed auto-generated daily email reports like Disk Usage, Server States, and CPU monitoring 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 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 predictor, **IDK-GST** - GST bill calculator, **Scholar sheets -** Kindergarten worksheets, **Music Jambox -** scrape lyrics & artists info, **Resume Parser**