

## SKILLS

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- **Data analyst tools:** Python, SQL, R, SAS, VBA, PySpark, Scala, MS Excel, Matlab, Google Analytics, Teradata, Alteryx.
- **Data engineering tools:** NoSQL, AWS, Hadoop, Kubernetes, CUDA, InfluxDB, Rest API's, GraphDB, Azure.
- **Data visualization tools:** Python (Matplotlib, Seaborn, Plotly), ggplot, Power BI, Tableau, Grafana, RStudio, Rshiny, Qlik.
- **Data scientist tools:** ETL, Machine learning, Big Data, Pandas, NumPy, Scikit-learn, TensorFlow, Keras, ML Ops.
- **Soft skills:** Technical Leadership & Mentorship, Communication, Self-Starter, Team Player, Problem-Solving.
- **Others:** Git, GitHub, Jira, Agile, Scrum, Ad-hoc, SDLC methodologies, API, PLC, SCADA.

## WORK EXPERIENCE

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### CCC Intelligent Solutions | Data Science Intern - R&D | Chicago, IL

June 2023–September 2023

- Developed Generative AI solutions for auto insurance claims in CCC's Core products ([Smart Estimate](#), [Estimate STP](#)) applying transformer networks and Kubernetes in Python and AWS environments, achieving a 30% increase in model performance.
- Developed scalable computer vision algorithms for car parts classification and image segmentation, using TensorFlow, Keras, and Python, cutting down claim processing time by 27%.
- Designed ad hoc Tableau reports within SLA compliance, empowering stakeholders with actionable insights, enhancing e-commerce by 15%. Ensured data integrity using Presto SQL.
- Partnered cross-functionally with R&D and Data Science teams to build Proof of Concepts with Miro, Figma, Python, Tableau, and SQL for concept prototyping.

### Northwestern University | Research Assistant | Evanston, IL

February 2023–June 2023

- Analyzed sports analytics expertise by employing computer vision techniques on basketball game videos to create LSTM based predictive models, resulting in a 20% improvement in shot success prediction accuracy.
- Identified and mitigating errors by 15% through statistical modeling, enhancing data quality & pattern analysis.

### AVL | Lead Data Science Engineer | India

March 2019–September 2022

- Led a team of 8 peers through Agile Leadership in development of an Energy Management Solution ([DAKSH](#)) using IOT automation, analyzing patterns, trends, and anomalies in real-time sensors data generating \$4M revenue showcasing Project Management skills of scheduling, budgeting, and resource planning with end-to-end ownership of project.
- Produced interactive Power BI dashboards with DAX Expressions on large datasets, boosting real-time key performance indicators (KPI) monitoring by 25%.
- Instituted NLP-based classifiers (NLTK and spaCy) to extract and analyze textual data for trends and patterns from maintenance logs, repair reports, and user manuals, increasing equipment troubleshooting by 30%.
- Utilized web scraping techniques for downloading weather data to achieve a solar panel management solution, identifying causal inference from structured and unstructured data and generating alerts, saving 20 hours of manual work each week.
- Leveraged machine learning model & signal processing to predict engine component failures (MCSA), reducing downtime by 10% through engine performance optimization in automotive industry.
- Increase order output in sales department by 36% by developing ML algorithm that incorporates ARIMA and Neural Networks model that forecast future sales with 90% accuracy.
- Collaborated with cross-functional teams to integrate business intelligence solutions, actively participated in Agile Scrum meetings, contributing to project planning and execution, and leveraging tools like Jira for workflow management.

### Siemens | Data Analyst | India

June 2018–February 2019

- Conducted exploratory data analysis (EDA) on large financial datasets to uncover hidden patterns and actionable insights, contributing to an 11% increase in budget forecasting precision and supporting strategic financial planning.
- Developed a custom data extraction and cleaning pipeline using SQL, Python and R to automate data collection and analysis, resulting in a 37% reduction in data processing time. Managed various databases, ensuring data integrity and efficiency.
- Designed and developed dynamic dashboards for comprehensive financial reporting using Power BI and Tableau, streamlining the reporting process for key stakeholders, leading to a 13% improvement in decision-making.
- Achieved 20% increase in customer engagement through an ML-driven predictive analytics system, for market trend analysis and forecasting. Utilized tools like Salesforce CRM and Google Analytics for advanced data manipulation and analysis.

## PROJECTS

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### Cybersecurity Data Analysis and Threat Mitigation

- Employed Teradata for data warehousing, utilized Alteryx for data preprocessing, data cleaning and feature engineering, performed ETL using complex SQL queries to identify and mitigate security threats by 24%
- Created visualization dashboard using Power BI to communicate findings effectively with the Cybersecurity team.

## EDUCATION

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Masters of Science in Information Technology (Concentration: Data Science, Statistics, Visualization), **Northwestern University**  
Bachelor of Technology in Electronics and Communication Engineering, **Uttar Pradesh Technical University**