

Abhijith Kasula

Columbus, OH | [Portfolio](#) | [Github](#) | [Mobile](#) | [Mail](#)

WORK EXPERIENCE

Data Engineer, Devoir Software Solutions, Columbus, Ohio

June 2023 - Present

- Collaborated in the development of data pipelines for processing and analysing data from autonomous vehicle sensors using **Python** and **AWS** services.
- Utilized **SQL** for data extraction, transformation, and loading (**ETL**) processes to improve data efficiency.
- Enhanced data accuracy and reliability by implementing advanced **Python** libraries for data cleaning and processing.
- Assisted in the visualization of data insights and trends through **PowerBI** to guide engineering decisions.
- Leveraged the versatility of **AWS** services to ensure seamless data storage, retrieval, and scalability.
- Accelerated the testing phase of autonomous vehicle sensors by ensuring accurate and real-time data insights, leading to a 20% reduction in sensor calibration time.

Data Analyst, Thinklusive. Inc, Monmouth Junction, New Jersey

September 2022 – May 2023

- Analysed and interpreted data from autonomous vehicle sensors to derive actionable insights using **Python** and **SQL**.
- Designed interactive dashboards in **PowerBI** to visually represent sensor performance metrics and anomalies.
- Collaborated with the engineering team, employing **R** for statistical analysis to improve sensor efficiency.
- Streamlined data flow and integration using **AWS** services to ensure uninterrupted data access.
- Conducted regular data audits with **Python** libraries to maintain data integrity and quality.
- Achieved a 15% improvement in sensor reliability through data-driven optimizations for enhanced vehicle safety.

Data Analytics Intern, Gas Turbine Research Establishment of India (GTRE),

January 2021 - July 2021

GTRE is the R&D laboratory of the Defense Research and Development Organization (**DRDO**).

- Specialized in extracting, cleaning, and analysing large datasets related to gas turbines using **Python** and **SQL**.
- Conducted extensive data visualization through **PowerBI**, providing comprehensive overviews of turbine performance.
- Utilized **R** for predictive modelling, forecasting potential maintenance intervals and turbine lifespan.
- Collaborated closely with engineers, translating data insights into actionable engineering improvements.
- Implemented **AWS** services for secure and scalable data storage solutions, ensuring quick data retrieval.
- Boosted the operational efficiency of gas turbines by 10% through data-backed recommendations, extending average turbine lifespan by 12 months.

Data Analytics Intern, Tech-Ed Equipment Private Limited, Bangalore, India

March 2020 – December 2020

- Spearheaded the development of a post-processing kit, leveraging **Python**, **HTML**, and **CSS**, offering dynamic visualizations, results, and conclusions.
- Collaborated with developers, integrating the kit with existing systems, and ensuring compatibility through **AWS** services.
- Harnessed the power of **PowerBI** and **Python** libraries to transform raw data into insightful visuals, aiding in better decision-making.
- Managed database queries and data manipulation using **SQL**, enhancing kit efficiency and speed.
- Ensured seamless user experience by integrating user-friendly interfaces using **HTML** and **CSS**.
- Enabled stakeholders to gain a 360-degree view of their data, leading to a 25% increase in data-driven decision-making across the organization.

EDUCATION

Master of Engineering from **University of Cincinnati**, Cincinnati, Ohio.

Bachelor of Technology from **Presidency University**, Bangalore, India.

SKILLS AND CERTIFICATIONS

Skills: Python, Tableau, PowerBI, Excel, R, SQL, AWS, S3, Redshift, EMR, Glue, Kinesis, Athena, Apache Spark, Data Cleaning, Data Warehousing, Data Visualization, HTML, CSS, Python, Numpy, Pandas, Seaborn, Streamlit, Hadoop, SolidWorks 2018, CATIA V5R20, Autodesk Fusion 360, AutoCAD 2018, ANSYS Workbench, ANSYS Fluent, Adobe Photoshop, Adobe Illustrator, Adobe After Effects, Blender, English, Kannada, Hindi, and Telugu.

Certifications:

- [Autodesk CAD/CAM for Manufacturing Specialization](#)
- [R Programming](#)
- [SQL for Data Science](#)
- [Excel Skills for Business Specialization](#)
- [Data Science Math Skills](#)

October 2020
September 2020
July 2020
July 2020
April 2020