



Jithin Prakash Kolamkolly

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ABOUT ME

Data Scientist and Lead data analyst with 10+ years of experience in Leading large-scale projects for Fortune 500 clients in Data Automation, Machine Learning, Analysis & Visualization. IBM and PRINCE2 certified

WORK EXPERIENCE

Data Analytics Manager

Cisco Systems Inc [05/2023 – Current]

City: Bangalore | Country: India

- **Data Management:** Oversee and analyze high-volume raw data from semiconductor manufacturing, focusing on key performance indicators (KPIs) to drive operational efficiency and quality improvement.
- **ETL Deployment:** Successfully deployed ETL processes to automate the extraction, transformation, and loading of data into Postgres and BigQuery, enhancing data accuracy and reducing processing time by 30%.
- **Predictive Analytics:** Implemented machine learning algorithms to predict defects in products and parts, achieving a 15% reduction in defective items based on historical test data.
- **Product Integration:** Spearheaded the onboarding of multiple product verticals into a centralized database, improving data accessibility and integration across teams.
- **Dashboard Development:** Created dynamic dashboards in Power BI to visualize the manufacturing execution system, providing real-time insights into the product lifecycle and enabling data-driven decision-making.
- **Traceability Management:** Managed product traceability and genealogy data, ensuring compliance with industry standards and enhancing transparency throughout the production process.
- **Production Oversight:** Directed planning, control, and visibility initiatives for the entire production system, leveraging manufacturing and test data to optimize processes and increase throughput by 20%.

Lead Data Analyst

Google India [04/2022 – 05/2023]

City: Bangalore | Country: India

- Led **data analytics** of Global capacity delivery for the APAC region as a Lead Data Analyst, facilitating discussions with Component manufacturers and vendors to obtain quality data on time and ensuring effective data-driven decision-making.
- Managed and processed **massive amounts** of data related to **component manufacturing**, testing, symptom tracking, debugging, reworking, indictment, and traceability, using advanced SQL in BigQuery and Looker Data Studio.
- Developed and implemented **data automation techniques** to automate data quality rules using DataPlex and SQL, resulting in a 40% reduction in manual effort and a 50% improvement in data accuracy.
- Successfully **on-boarded new vendors and partners** into the Google ecosystem, standardized their data processes, and ensured data quality using advanced **SQL in BigQuery and Looker Data Studio**, resulting in a 20% improvement in data accuracy.
- Led the **Data Quality** Assessment drive for component manufacturers' data, resulting in a 20% improvement in **data accuracy** and a reduction in rework by 30%.
- Collaborated with teams of data analysts and software engineers, delivering **high-performing data analytics** solutions, making trade-off choices dealing with functional complexity, conflicting priorities, and aggressive schedules, resulting in the successful delivery of projects within the given timeline.

Product Analyst

HelloFresh SE [11/2021 – 04/2022]

City: Berlin | Country: Germany

- **Product Analyst** with Supply Chain Management Tech dealing with Product scheduling and Logistic Configurator.
- Developed **Tableau dashboards** to analyze logistics capacity and trends across EMEA, resulting in a 10% increase in delivery efficiency.
- Leveraged **advanced SQL**, Impala, and BigQuery to enable data-driven decision making for supply chain management, resulting in a 15% reduction in logistics costs.
- Collaborated with product managers to assess supply chain **KPI performance** and identify areas for improvement, resulting in a 10% increase in on-time delivery.
- Analyzed **large volumes** of tracking instructions data to derive delivery timelines and improve latency efficiency, resulting in a 25% reduction in delivery time.
- Worked with stakeholders to identify KPIs, align objectives, and **drive key actions**, resulting in a 30% improvement in fulfillment center efficiency.
- Conducted **demand shaping** assignments to assess fulfillment center efficiency and production capacity, leading to the automation of supply chain processes and a 20% increase in productivity.

Data Analyst / Data Science Consultant (Freelance)

Toptal.Com [12/2020 – 12/2021]

City: Bangalore | Country: India

- Developed **data visualization** dashboards using SQL on Periscope and Looker, which enabled the marketing team to track customer behavior and identify opportunities for growth. These dashboards resulted in a 20% reduction in time spent on data analysis.
- Conducted **customer segmentation analysis** using data analytics and clustering techniques, leading to a 15% increase in marketing campaign effectiveness and a 10% increase in customer satisfaction.
- Leveraged Python and **machine learning algorithms** like Logistic Regression, Random Forest, XGBoost and Light Gradient Boost to build **predictive models** for the healthcare/insurance domain, resulting in a 15% increase in lead conversion rate and a 10% increase in sales revenue.
- Worked collaboratively with **cross-functional** teams, including product managers, marketing and sales directors, core platform engineers, and AI researchers, to improve marketing and sales strategies, resulting in a 10% increase in customer retention and a 5% increase in customer lifetime value.
- Generated **advanced SQL queries** on Amazon Redshift SQL database to generate dashboards for the HealthIQ insurance marketing team, resulting in a 15% improvement in data accuracy and a 10% reduction in dashboard creation time.

Lead Data Scientist

Tata Consultancy Services [02/2013 – 01/2021]

City: Bangalore | Country: India

- **Business Intelligence** analyst building solutions to business problems via simple visualization reports and dashboards.
- Processing, cleansing, and verifying the integrity of data and quality of data used for analysis.
- Created and managed multiple dashboards using **PostgreSQL** on periscope and looker.
- **Feature Importance** identification for the marketing and sales datasets.
- Partner cross-functionally with product managers, marketing and sales directors, core platform engineers, and AI researchers to improve the marketing and sales strategy and processes.
- **Data Analyst** dealt with real-time manufacturing data to ensure data are within range and provide insights on trends, patterns, and anomalies. Use these for machine learning to enhance productivity and drive better business outcomes.
- Developed advanced algorithms that solve problems of **large dimensionality** in a computationally efficient and statistically effective manner.
- Experience in **hypothesis testing**, machine learning, and retrieval processes on large, unstructured data sets to identify trends, figures, and other relevant information.
- Extensive experience in analyzing and modeling large volumes of data using **advanced SQL queries**.
- Technical support for **continuous improvement** of divisional manufacturing projects/processes.

- Created **data-based dashboards** for reporting for Engine health monitoring and prediction of anomalies & probable maintenance required using SQL and Python.
- **Exploratory data analysis** (EDA) and data automation of measurement system analysis using Python programming.
- Team management and skill development experience. **Agile project planning** and project management experience
- Extensive programming and debugging skills in **python** using Pandas, NumPy, Scikit-Learn, SciPy, TensorFlow, etc.
- Experience in data mining, text mining, predictive and forecast modeling.
- Worked on **Machine Learning** Algorithms but not limited to Linear regression, Logistic Regression, Clustering using KNN, DBScan, Decision Tree, Random Forest, Gradient Boosting, Neural Network using Keras and TensorFlow.
- Achievements: Best Performer 2014-15; Six Sigma Green Belt; Star of the Month Award.

Statistical Process Control Engineer

BEML Limited [02/2010 – 03/2013]

City: Palakkad | Country: India

- Managed 200+ resources as Production in charge and managed the resources and inventory.
- Created and manage inventory and resource management system, use a large amount of Data apply **statistical models**, and provide insights.
- Published and Managed Dashboard Creation and Data Visualization for Resource Utilization and Inventory management.
- SME in **Statistical Process Control Activities** and experience in Kaizen, Root Cause Analysis.
- Conducted in-plant tests in advance to assure unit testing and avoid unplanned overhead costs.
- Designed and performed experiments to evaluate and optimize manufacturing processes or methods.

Data Analyst and Data Automation expert

Freelancer [09/2008 – 03/2010]

City: Bangalore | Country: India

- Worked as a freelancer for more than 100+ projects in data automation, data analysis, and **dashboard creation**.
- Main areas of work include but are not limited to, **Exploratory Data Analysis**, Dashboard creation, MS Office and Google sheets Automation, **MS Access/MySQL** integrated inventory management system.
- Secondary working projects in Composite Imagery creation and website automated update/**Scraping**, SharePoint-based weekly status, and **storyboard creation**.
- Dashboard creation using raw data and calculations and report generation, **Data Mining**, and web-scraping.

Assistant Systems Engineer

Tata Consultancy Services [19/10/2008 – 04/03/2010]

City: Bangalore | Country: India

Experience, in aerospace for Airbus client, as a design engineer for creation of Electrical harness routing diagrams and support specifications using CATIA V4 platform including the customization.

- Harness routing using CATIA v4 and v5 for Labinal GmbH.
- Overview drawings creation by importing the part drawings using VPM and CATIA v4.
- Load the structural design and harness of Airbus A380 in DVICE Mock-up.
- Created missing parts and mark the support and bundle number.
- Format the drawings and deliver the drawing to the customer portal.
- Automated CATIA V4 using Fortran which reduced man-hours for aesthetic controls by 30%
- Automated CATIA V5 using Visual Basic scripts which reduced man-hours for data extraction by 30%

Junior Lecturer

Amrita School of Engineering [08/07/2008 – 06/10/2008]

City: Kollam | Country: India

Junior Lecturer in Mechanical Engineering Department

EDUCATION AND TRAINING

Postgraduate Diploma in DataScience

International Institute of Information Technology - Bangalore [05/2020 – 07/2021]

City: Bangalore | Country: India | Field(s) of study: Data Science | Final grade: 3.94

Bachelors of Technology in Mechanical Engineering

Amrita Institute of Information Technology [06/2004 – 06/2008]

City: Kollam | Country: India | Field(s) of study: Mechanical Engineering | Final grade: 8.72

LANGUAGE SKILLS

Mother tongue(s): Malayalam

Other language(s): Hindi | English | Kannada | Tamil

DIGITAL SKILLS

Microsoft Excel including VBA Macros (high proficiency) / SQL (MySQL, SQLite, PostgreSQL, SQL Server) / Programming languages (Python and R program) / Python (matplotlib, pandas, numpy, etc) / Python DataScience / Datascience / Looker / Data Visualization (Tableau, Carto) / Machine Learning / DBT / Tableau Server / Jira, Confluence, Trello / Google Datastudio / DataPlex / GCP(Storage, BigQuery, Vision API) / MS PowerBI Desktop / Visual Analytics Tools: Tableau, PowerBI / DBeaver/DataGrip / IDE: Eclipse, Visual Studio, Visual Studio Code, PyCharm, Dev C++ / ETL: Airflow / Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access

ADDITIONAL NOTE

Closing Statement

I am a dedicated professional with over 12 years of experience in data analytics, known for my resilience and unique perspective. Having successfully rehabilitated from paraplegia to achieve near independence, I have honed advanced wheelchair skills that reflect my determination and problem-solving abilities. My journey has instilled in me a strong work ethic, adaptability, and a deep commitment to excellence in my professional endeavors.