

ALLAN C MATHEWS

DATA ANALYST | DATA SCIENTIST

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Driven by a passion for discovering compelling stories through data, I strive to uncover insights that illuminate a company's past, present, and future. My goal is to transform complex data into strategic decisions that drive growth and innovation.

TECHNICAL SKILLS

Programming: Python, R, SQL

BI Tools: Sisense, Tableau, Power BI

Data Science Skills: Azure OpenAI, Langchain, Tensorflow, Statsmodel, Scikit-Learn, EDA, NLP, LLM, Pandas, Numpy, Matplotlib, Plotly, Dash, Flask, Django-REST, Docker, Dash, Time Series Forecast, Regression, Classification.

EDUCATION & CERTIFICATION

MECHANICAL ENGINEERING (B.TECH)

➞ *Calicut University* (2012-2016)

MACHINE LEARNING

➞ *Stanford University Online* (Nov 23, 2020)

GOOGLE DATA ANALYTICS

➞ *Coursera* (Sep 13, 2021)

➞ [+15 Online courses related to Data Science skills](#)

PERSONAL PROJECTS

➞ [Case Study: How does a bike share navigate speedy success](#)

Tableau project analysing Cyclistic bike share data, informing marketing strategies.
<https://public.tableau.com/app/profile/allan.mathews/vizzes#1/>

[IBM HR Analytics](#)

➞ Developed an interactive HR analytics dashboard using Python with Dash Plotly for data driven insights.
<https://github.com/allan-mathews/HR-Analytics>

PROFESSIONAL EXPERIENCE

BUSINESS INTELLIGENCE ENGINEER

PENA4 TECH SOLUTIONS PVT. Ltd.

JAN 2020 – JUL 2024 (4.5 Years)

- Created dashboard reports using Python (Dash-Plotly), replacing Sisense and saving \$25,000 annually.
- Automated Excel report generation with customized formatting using Pandas and Styleframe libraries. Streamlined delivery by automating email reports and implementing weekly scheduling with Python.
- Increased operational efficiency by 20% by automating redundant tasks for HR and Sales Executives
- Utilized machine learning algorithms to enhance data analysis and dashboard reporting, providing deeper insights and more accurate predictions.
- Built a time series model (ARIMA) to forecast medical cases with 88% accuracy.
- Developed a Python-based ICD-10-CM code book from ICD guidelines PDF for the GenAI project.
- Implemented a GenAI-driven medical coding system using Azure OpenAI (GPT-3.5 and GPT-4 Turbo).

Product Development Engineer

FUNSKOOL INDIA LTD

FEB 2018 – NOV 2019 (1.9 Years)

- Managed an \$8 million project, setting objectives and plans in collaboration with management.
- Defined project specifications based on product design, customer needs, and performance standards, including cost estimation.
- Conducted product performance tests to ensure quality.
- Monitored project progress, resolved issues, and coordinated activities to meet schedule.
- Identified cost-saving measures in production and oversaw manufacturing and supply chain coordination.