

Anooj Rajamohan

DATA ANALYST | DATA SCIENTIST | MACHINE LEARNING ENGINEER

Profile

My passion for data and technology fuels my career shift towards Data Science and Machine Learning. My 17 years of experience in MEP Construction Management provide a valuable foundation for analytical mindset, project management expertise, and a deep-rooted enthusiasm for computer science, honed skills in **Python, SQL, Excel, Power BI**, and various **Machine Learning** algorithms. 3+ years of diverse freelance projects, including **web scraping, data analysis, and Python project development**, demonstrate my ability to stay current with industry trends and deliver impactful solutions within the dynamic field of **Data Science** and **Machine Learning**. [more details...](#)

Professional Experience

Freelance Python Developer and Data Analyst

APR 2020 — TILL DATE

- Engineered and implemented an **algorithmic trading software**, demonstrating advanced **Python programming** skills and expertise in financial technology.
- Planned and executed the design and launch of a **comprehensive website** for an MEP coaching institute, incorporating **interactive** features and ensuring seamless **hosting**.
- Led successful **web scraping** projects, delivering valuable data insights to clients.
- Developed a **Python software for cable size calculations**, significantly reducing the time required for engineers to design cable sizes in a construction company.
- Managed **insightful data analyses**, contributing to the growth of a local supermarket chain.

Construction Manager - Debbas Enterprise, Doha, Qatar.

MAR 2018 — FEB 2023

- Directed the **analysis of site survey data** to determine precise material requirements and optimize budget allocation, ensuring projects adhere to approved timelines.
- Implemented **data-driven** collaboration techniques to facilitate successful project completions.
- Executed rigorous **data tracking** methods to monitor project costs and performance metrics, prioritizing financial optimization to maximize profitability.

MEP Manager - Mint Projects International, Muscat, Oman.

JAN 2017 — JAN 2018

- Directed the utilization of **data analysis** to generate accurate project estimates, monitor costs for profitability, and assess construction bids for cost-effectiveness.
- Led the design and development of residential and commercial buildings as an MEP Manager, ensuring on-time project delivery through effective coordination.
- Managed the utilization of data analysis to oversee safety compliance at construction sites, negotiate contracts, and optimize operations for enhanced efficiency and safety.

Electrical Manager - Al Jazirah Engineering Consultant, Jubail, Saudi Arabia.

OCT 2014 — NOV 2016

- Directed operational excellence by spearheading the streamlining of task organization and utilizing **data analysis to evaluate construction bids**, ensure the cost-effective contractors.
- Executed precise construction plans and calculations using computer software, taking the lead in weekly production and operations contractor meetings to enhance communication and address critical issues.
- Managed **data analysis to enhance decision-making** and **optimize project outcomes**.

Construction Manager - Green Dreams Electromechanical LLC, Dubai, UAE.

JAN 2011 — AUG 2014

- Directed the **application of data analysis** techniques to conduct routine job site assessments as a Construction Manager, providing guidance to subcontractors to ensure project efficiency.
- Executed meticulous **data tracking methods** to monitor project costs and metrics, enhancing financial performance and profitability.

Project Engineer MEP - Green Dreams Electromechanical LLC, Dubai, UAE.

SEP 2008 — JAN 2011

- Planned and scheduled engineering tasks as a Project Engineer to ensure efficient project progress.

Design Engineer (Electrical) - Future Engineering Consultant, Sharjah, UAE.

JUL 2006 — AUG 2008

- Designed intricate CAD models and drawings as a Design Engineer, encompassing architectural designs such as commercial and residential towers, villas, labor camps, and warehouses.

Details

Kollam, Kerala, India

+91 75 5801 3555

armengr18@gmail.com

www.armportfolio.com

Links

 [LinkedIn](#)

 [GitHub](#)

 [Kaggle](#)

Hard Skills

Python, Pandas, NumPy,

SciPy, Statsmodels, Matplotlib,

Seaborn, Spacy, NLTK,

Scikit-Learn, Stream lit, Scrapy,

Beautiful Soup, Request,

SQL Server, Power BI, DAX,

MS-Excel, Power Query,

Power Pivot, HTML5, CSS3, JS,

Linux, Git, GitHub, Data Mining,

Data Wrangling, Data Cleaning,

ETL, Data Analysis,

Data Visualization, Data Science,

Machine Learning, Supervised

Learning, Regression,

Classification, Unsupervised

Learning, Clustering,

Natural Language Processing

(NLP).

Soft Skills

Written Communication,

Team Building, Critical Thinking

Teamwork and Collaboration,

Flexible and Adaptable,

Decision-Making,

Projects

Customer Level Sales Prediction and Inventory Management Optimization in E-Commerce

- **Objective:** Develop and deploy a machine learning model for predicting customer-level sales and profit generation, while optimizing inventory levels and ordering procedures based on data analysis.
- **Tools and Technologies:** Python, Scikit-learn, Pandas, NumPy, matplotlib, seaborn, SQL, Power BI
- **Impact:**
 - 1) Optimized inventory management resulted in reduced stockouts and improved operational efficiency.
 - 2) Data-driven insights provided valuable guidance for strategic decision-making.
- **Future Work:**
 - 1) Integrate additional data sources (e.g., **customer demographics, marketing campaigns**) for further model improvement.
 - 2) Implement real-time sales prediction and inventory management system. [more details...](#)

Transforming Retail Marketing Strategies

- **Methodology:**
 - 1) Analyzed sales and transaction data using **SQL**
 - 2) Identified hidden patterns and valuable insights
 - 3) **Segmented customers** for targeted marketing efforts
 - 4) Designed impactful marketing campaigns using insights
 - 5) Created interactive **Power BI reports** for data visualization
 - 6) Tracked campaign performance and overall store success
- **Results:**
 - 1) Increased customer engagement and loyalty
 - 2) Optimized inventory management resulted in reduced stockouts
 - 3) Boosted sales and revenue
 - 4) Improved marketing ROI [more details...](#)

Algorithmic Trading System

- **Key Features:**
 - 1) **Automated Login:** Selenium automates platform login and token acquisition for API.
 - 2) **API Integration:** Script integrates with the trading platform **API**.
 - 3) **Modular Design:** Separate modules handle trade strategy, execution, and monitoring.
 - 4) **Dynamic Trade Quantity:** Trade quantity automatically adjusts based on available account.
 - 5) **Continuous Monitoring:** Script continuously monitors market conditions for trade.
 - 6) **Automated Trade Execution:** Script executes trades when conditions are met.
 - 7) **Automated Exit Strategy:** Script automatically exits trades based on pre-defined conditions.
 - 8) **Balance Monitoring:** Script continuously monitors account balance for risk management.
 - 9) **AWS Deployment:** System deployed on **AWS** for scheduled operation and execution.
- **Benefits:**
 - 1) Eliminates manual trading and reduces human error.
 - 2) Enables faster reaction to market opportunities.
 - 3) Enforces consistent trading discipline.
 - 4) Improves trading efficiency and accuracy. [more details...](#)

Cable Size Calculation Software for Electrical Design

Embarked on a career transition journey by recognizing a pivotal operational challenge within a construction company. This realization fueled my entry into software development, marking a strategic shift in my professional trajectory.

Key Features:

- 1) **Automated Data Detection:** Automatically detect source data provided in Excel format, eliminating the need for manual input and minimizing errors in the calculation process.
- 2) **Dynamic Calculations:** Upon execution, the software intelligently extracts all necessary data and executes intricate calculations based on engineering standards and project requirements.
- 3) **Efficient Result Generation:** The calculated cable sizes are then meticulously formatted and stored in a new Excel file. This ensures organized documentation for each project.

Impact:

- 1) **Career Change Catalyst:** Initiated my career transition journey by recognizing the transformative potential of technology.
- 2) **Time Savings and Operational Efficiency:** Successfully implemented the Cable Size Calculation Software, resulting in substantial time savings for engineers. This, coupled with enhanced operational efficiency, empowered engineering teams to meet project deadlines more effectively.
- 3) **Error Reduction:** By automating the cable size calculation process, the software has significantly reduced the likelihood of human errors, ensuring greater accuracy in engineering designs. [more details...](#)

**Time Management,
Interpersonal Communication,
Problem-Solving,
Dependable and Responsible.**

Certifications & Courses

Analyzing and Visualizing Data with Microsoft Power BI
JUL 2023 [CREDENTIAL LINK](#)

MS SQL Developer
JUN 2023 [CREDENTIAL LINK](#)

Google Project Management Certificate
OCT 2022 [CREDENTIAL LINK](#)

Project Management Skills for Leaders
OCT 2022 [CREDENTIAL LINK](#)

Web Scraping with Python
OCT 2022 [CREDENTIAL LINK](#)

Google IT Automation with Python Specialization
JUN 2021 [CREDENTIAL LINK](#)

Modern HTML & CSS From The Beginning (Including Sass)
JAN 2021 [CREDENTIAL LINK](#)

Diploma in Electrical CADD, CADD Centre Training Services Pvt Ltd.
2006

MS Excel, MS Projects, CADD Centre Training Services Pvt Ltd.
2006

Revit, Virtual Design & Construction Institute, California
2006

Education

PG Certifications in Data Science
AnalytixLabs, Bengaluru
JUN 2023 — MAR 2024

B.Tech in Electrical and Electronics Engineering
TKM College of Engineering, Kerala
JUN 2002 — MAY 2006

Languages

English, Malayalam, Hindi, Tamil

Hobbies

Driving , Trekking, Exploring Nature, Travelling and Camping, Computer Programming