

ANISH S

Tiruchirappalli, India | +91 9384972461 | anishlearning16@gmail.com | [LinkedIn](#) | [GitHub](#) | [Medium](#)

SUMMARY

Driven cricket lover, player and Data Scientist with expertise in AI, computer vision, and player performance analytics. Adept at building AI-driven tools for match analysis and automation. Proven ability to develop predictive models, track player performance, and extract meaningful insights from large datasets. Strong knowledge of Python, machine learning, and AWS, coupled with hands-on experience in cricket analytics tools and building APIs to integrate and build production ready applications.

WORK EXPERIENCE

- ❖ Junior Data Scientist
GoldenNest Technologies, Tiruchirappalli
- June 2023 - Present**
1 Year 11 months

Project 1: Generate Wealth App

- **Automated Quarterly Portfolio Report Generator:** Developed an automated system for generating quarterly portfolio performance reports with charts, KPI'S and automatically mailed to respective user, The solution streamlined data processing and report creation, enhancing efficiency for investment analysis. This Involved exploratory data analysis, AWS Lambda, RDS(SQL), S3, SQS, SES, Python and SQL.
- **Stock Pattern Similarity Detection Using Time-Series Matching:** Developed a stock analysis tool to detect historical patterns similar to recent 30-day price trends using time-series similarity algorithms. Implemented cosine similarity and Euclidean distance to compare normalized price windows. Predicted possible future trends by analysing price movements following historically similar patterns. This involved Python, Pandas, Scikit-Learn, Matplotlib, Cosine Similarity, Euclidean.

Project 2: Alternative Data (Alt Data)

- **ETL Development and Data Aggregation for Web-Scraped Sources using AWS:** Contributed on the ETL process by handling the preprocessing of data acquired through web scraping in both JSON and CSV formats. My responsibilities included preparing Lambda code for scraping, orchestrating the aggregation of this data into a relational table format and summarize it for quality check. This involved utilizing AWS Glue, S3, Athena (SQL), AWS Lambda, Python and Excel.

Project 3: Xcaldata App

- **Rhombus AI** - Contributed on data preparation and built the model which helps to analyze the stock market behavior using technical indicators and other factors results in recommending whether one buy or hold or sell the stocks.
- **Chatbot** - Developed a retrieval-augmented generation (RAG) chatbot to address customer inquiries, leveraging large language models (LLMs). Additionally, developed an automated data updater pipeline utilizing AWS Lambda, AWS SQS, and SQL to ensure real-time data synchronization.

Project 4: Vanigam.ai (CRM Application)

- **Scalable API Development and Serverless Deployment for Marketing Automation:** Designed a scalable database schema to support multiple applications, ensuring efficient data management and retrieval. Built and deployed production-ready APIs while implementing email-sending flows for automated communications using AWS SES and AWS SQS. Additionally, deployed the application on AWS Lambda and API Gateway, enabling a serverless and scalable architecture to streamline and track marketing flow.

❖ **Computer Vision Engineer Intern** **Feb 2024 – Mar 2024**

Mad About Sports, Remote (Part Time) **1 month**

Developed a cricket pitch detection model using YOLOv8, OpenCV, and Streamlit, enabling accurate identification and analysis of pitch conditions. Additionally, delivered comprehensive player performance tracking tools to enhance grassroots cricket analytics, providing valuable insights to improve player development and game strategies.

❖ **Machine Learning Intern** **Jan 2023 – Mar 2023**
CDIX Innovations Private Limited, Chennai **2 month**

Built predictive models for electricity consumption and implemented time series analysis techniques to analyze usage patterns. Automated event certificate generation using OpenCV, streamlining the process for efficiency. Additionally, developed sales dashboards in Power BI to enhance data visualization and decision-making. Conducted competitor analysis and managed social media data to gain valuable performance insights, helping businesses optimize their strategies.

PERSONAL AND FREELANCE PROJECTS

❖ **Match Summarizer AI (In Progress)** **2024**

Developed a Streamlit app to collect ball-by-ball match data by scraping websites and generate analysis report based on predefined templates and provide match summary. The project integrates Python, Google Gemini Flash API, RAG to summarize matches.

❖ **Olympics and World Championship WITTW Model** **2024**

The **What It Takes to Win (WITTW)** model is a system used to decipher the building blocks of sports performance. Two such building blocks include:

1. **Archery Age Profile**: Developed a dashboard depicting the ideal age range for the sport that you have chosen from the above. There should be clear demarcation for male and female events.
Demo Link: <https://archeryageprofileddashboard.streamlit.app/>
2. **Archery Past Performance Profile**: Scraped data to ascertain correlation between Olympic medallist and their past performances at senior and junior world championships.
Demo Link: <https://pastperformanceanalyzer.streamlit.app/>

FREELANCE PROJECTS:

❖ **Multi Shuttle Run and 30m Sprint Time and Winner Detection Model (Khiladi Pro)** **2024**

Developed multi-shuttle run and 30m sprint detection models using OpenCV and Python.

❖ **Mad About Sports User Space (Mad About Sports)** **2024**

Created a smart resume analyzer and cricket analytics tools with Python, RAG, Streamlit and Google Gemini API.

Demo: https://drive.google.com/file/d/1dLkOfH7NGvwPU9Vypv1L7_ng-YaA7h6m/view?pli=1

EDUCATION

- ❖ **M. Sc. Data Science** 2021 – 2023
St. Joseph's College (Autonomous), Tiruchirappalli **82.9%**
 - ❖ **B. Sc. Statistics** 2018 – 2021
St. Joseph's College (Autonomous), Tiruchirappalli **79.1%**
-

TECHNICAL SKILLS

- ❖ **Programming Languages:** Python - (Pandas, NumPy, Matplotlib, Plotly, Scikit-Learn, Pytorch, OpenCV, YOLO, Streamlit, Boto3, Beautiful Soup)
 - ❖ **Database:** My SQL
 - ❖ **Data Visualization:** Excel | Power BI
 - ❖ **Machine Learning and Statistical Analysis:** Feature Engineering | Correlation | Regression | Classification | A/B Testing
 - ❖ **AWS:** Lambda | S3 | Athena | Event Bridge | CloudWatch | Step Functions | SES | Amplify | SAM
 - ❖ **Cricket Analytics Tools:** CricHeroes, CricSheet, Statsguru, CricXIPredictor, OmniCalculator, BCCI TV, Ask Cricinfo, MyFinals11, Cricket.com, Kinovea, Ball Tracker.
 - ❖ **Soft Skills:** Collaborative Team Player, Leadership, Presentation, Communication
 - ❖ **Design Skills:** Canva, Create Studio
 - ❖ **MS Office and Git Version Control**
-

CERTIFICATION

- ❖ 5 Days Cricket Analytics Workshop by Mad About Sports
 - ❖ Mad About Sports Cricket Analytics Masterclass – In Progress (90% Completed)
 - ❖ Cricket Content Creation Workshop by Dugout
 - ❖ Professional Video Analytics by David Gladson – Cricket Skills Academy (In Progress)
-

ADDITIONAL INFORMATION

SOFT SKILLS : Logical, Analytical, Problem Solving and Collaborative skills
LANGUAGES : English, Tamil, Hindi (Learning)

WEBINAR AND SEMINAR

- ❖ Conducted 2Hours Webinar at VIT College in the topic of “Cricket Analytics and Building RAG Specific Application (Nov 2024)