

Internship Report

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Duration: 23rd June – 18th July 2025

Role: Data Science Intern

Organization: Al Seer

Mentor: Shahruj Rashid

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1. Introduction

This report outlines my work and learning experience during a four-week internship at AI Seer as a Data Science Intern. Under the guidance of Shahruj Rashid, I engaged in real-world data tasks, automation, dashboard building, and LLM testing, which significantly expanded both my technical and analytical skillset.

2. About the Organization

AI Seer is a data-focused technology company specializing in AI, machine learning, and automation solutions. It aims to build intelligent systems that simplify and optimize data-driven decisions for clients across various domains.

3. Objectives of the Internship

- Build practical experience with data science workflows and real datasets
 - Apply automation tools to improve user engagement processes
 - Design dashboards and data visualizations
 - Explore and evaluate language models for internal use
 - Improve collaboration, communication, and reporting skills
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4. Weekly Work Summary

Week 1 (June 23 – June 29)

- Built a **filtering system** for the analytics dashboard, enabling filtering of users based on their usage patterns

- Cleaned and refined **visual graphs** on the analytics website to improve clarity and user experience
- Got familiar with the company's codebase and data infrastructure

Week 2 (June 30 – July 6)

- Developed an **AWS Lambda function** to support backend automation
- Used **Zapier** to create an email automation system triggered by the user filter, enabling monthly engagement emails
- Conducted evaluation of **Sealion LLM** to assess its suitability for potential integration or partnership

Week 3 (July 7 – July 13)

- Created multiple dashboard metrics:
 - **Game Participation Over Time**
 - **New Discover Posts Per Day (Last 14 Days)**
 - **Download User Emails Separately** (for Game, Discover, and Active users)
 - **Game & Discover Engagement** visualizations
- Tested **Anything LLM** with different base models for performance and compatibility
- Completed 2 major data analysis tasks:
 - **Task 1: Monthly Action Count Segregation**
Analyzed query data from August 2024 onwards, breaking down actions into types like short/long query, YouTube, TikTok, etc.

- **Task 2: User Milestone Segmentation**

Segmented users by signup month and tracked milestones like first fact-check, trial, payment, and action usage

Week 4 (July 14 – July 18)

- **Pushed and finalized all code** to production or staging
- **Cleaned up code** for readability and documentation
- **Compiled the final report** of all tasks and progress made
- Completed remaining tasks and coordinated with the mentor for final review

5. Skills Developed

- Python for data analysis and automation
- Dashboard design and data visualization
- AWS Lambda & Zapier for automation workflows
- Evaluation and testing of large language models
- Communication and collaboration within a tech team
- Structured reporting and code documentation

6. Challenges Faced

- Integrating automation tools (Zapier + AWS Lambda) with filters and real-time data
 - Managing data inconsistencies across different sources
 - Evaluating LLMs with limited documentation
 - These were overcome through mentor guidance, testing, and iterative debugging
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7. Conclusion and Reflection

This internship at AI Seer gave me hands-on exposure to the data science pipeline — from analysis and visualization to automation and AI tool testing. Working under Shahruj Rashid's mentorship helped me grow in both confidence and capability. The experience has reinforced my interest in working at the intersection of data science and automation.