

Elene V Hovsepyan

Data Science Student & AI Engineer

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Professional Summery

Data Science student and AI Engineer with professional experience building AI-powered automation platforms, machine learning solutions, and scalable software systems. Passionate about applying artificial intelligence, data engineering, and software development to solve real-world business and research problems.

Experience

Software Engineer | LinkyJuice Oct 2025 - Present

- Built AI-powered research automation tools that reduced manual keyword discovery time by approximately 40%, integrating multiple search APIs, mechanised data processing, and Google Sheets workflows.
- Integrated 5+ external APIs into automated research pipelines supporting keyword generation, URL validation, and large-scale data collection.
- Created scalable data pipelines connecting Google Sheets and REST APIs, reducing manual processing time by 40%, improving scalability.
- Collaborated with cross-functional teams to deliver 10+ production-ready automation features supporting SEO research, and internal workflows.

Research Assistant | AUA Acopian Center for the Environment Jul 2025 - Feb 2026

- Architected an interactive GIS platform combining 3+ environmental datasets, enabling researchers to visualise and analyse spatial information through a single interface.
- Cleaned and standardised 500+ environmental survey records, improving data quality and supporting multiple environmental research projects.
- Contributed to 4+ research publications and technical reports by preparing datasets, performing analyses, and developing visualizations.

Volunteer Coordinator & Mentor | YMCA Armenia Sep 2024 - Present

- Coordinated 10+ educational and community events involving volunteers, educators, and partner organisations.
- Mentored teams of volunteers in planning and delivering educational programs serving 100+ community participants.
- Organised logistics and communication for 10+ community events, ensuring smooth execution across volunteers and educators
- Led volunteer teams across 10+ educational events, managing schedules, communication, and task assignments to ensure successful event delivery.

Education

American University Of Armenia, Yerevan
B. Sc. Data Science 2023-2027

Business Analytics Track

Relevant Coursework

Database Systems, Machine Learning, Artificial Intelligence, Business Intelligence, GIS

Armenian Bioinformatics Institute 2025

- Python for Genomics
- Introduction to Molecular Biology

Competencies

- Artificial Intelligence
- Machine Learning
- Software Engineering
- Data Engineering
- SQL & Database Systems
- Software Automation
- Business Intelligence
- GIS & Spatial Analysis

Achievements

- EPIC Jam Startup Ideathon - Winner
- Student Council Representative
- YMCA Scholarship Recipient
- Peer Mentor, University Ambassador
- SAT Mathematics Instructor

Languages

Armenian	Native
Russian	Native
English	C2
Spanish	B1

Projects

AI-Assisted Research Automation Platform

AI Automation, APIs, Web Research, SEO, Data Pipelines

Planned an AI-powered automation platform integrating search APIs, keyword generation, URL validation, and Sheets automation to support large-scale SEO research.

PM2.5 Air Pollution Prediction

Machine Learning, Regression, Statistics, Data Analysis

Compared multiple regression models on 23,000+ observations, identifying the highest-performing model for PM2.5 prediction using MAE, RMSE, and R² evaluation metrics.

Battleship AI Simulator

Game AI, Bayesian Agents, Search Algorithms, Simulation

Developed a Battleship simulator implementing Bayesian, probabilistic, heuristic, and random AI agents, supporting automated experiments and statistical performance evaluation.

Data Warehouse & BI Solution

Data Warehousing, ETL, Dimensional Modeling, BI Reporting

Planned a complete SQL Server data warehouse with ETL pipelines, staging databases, dimensional models, fact tables, and reporting views for business intelligence.

Relational Database System

SQL, Relational Design, Normalization, Triggers, Optimization

Designed a fully normalized SQL database implementing stored procedures, triggers, indexes, constraints, and optimized queries for government record management.

Movie Data Analysis & Discovery

Data Analysis, Visualisation, Interactive Dashboards, Insights

Cleaned and analyzed a large movie dataset while developing interactive filtering, visualization, and recommendation tools for movie exploration and trend analysis.