IOANNIS KOUTNAS

Professional Summary

Motivated Computer Science and Engineering student with a strong foundation in Python, SQL, and data analysis. Experienced in analyzing datasets, optimizing algorithms, and building data-driven solutions through academic projects. Proven ability to manage operations, derive insights from performance metrics, and present actionable results. Currently pursuing IBM Data Analyst and Google Data Analytics Professional Certificates to expand expertise in business intelligence and visualization.

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📍 Volos, Greece

SOFT SKILLS

Problem solving

Critical thinking

Attention to detail

Teamwork

Communication

Time management

Customer service

Adaptability

LANGUAGES

English
Full Professional Proficiency

French
Limited Working Proficiency

Greek
Native or Bilingual Proficiency

EDUCATION

Bachelor of Science in computer Science and Engineering
University of Ioannina
2017 - Present   *Ioannina, Greee*

High School
Diploma
2016

PROFESSIONAL EXPERIENCE

Store Manager & Head Waiter
Grandpa's Kitchen Bar
2018 - 2025   *Ioannina, Greece*
Achievements/Tasks
- Manage a team of 15+ employees, optimizing schedules and operations.
- Analyze sales and inventory data to reduce waste and streamline purchasing.
- Apply data-driven insights to enhance customer experience and team performance.
- Strengthen communication, leadership, and multitasking skills in a fast-paced environment.

TECHNICAL SKILLS

Programming: Python (Advanced), SQL (Advanced), Java, C

Data Tools: Pandas, NumPy, Matplotlib, MySQL, Lucene

Competencies: Data Analysis, Database Design & Optimization, Data Mining, Information Retrieval, Graph & Network Analysis

Currently Learning: IBM Data Analyst & Google Data Analytics (Coursera)

ACADEMIC PROJECTS

- Graph Theory Analysis | Python
  - Analyzed paths, cycles, trees, and connectivity using custom graph algorithms. Explored network properties, planarity, and coloring to solve real-world optimization problems. Grade: 9/10.

- Advanced Algorithms & Data Structures | Python
  - Developed multiple projects on graph traversal, shortest-path, max-flow, and matching algorithms. Implemented hash functions and performed amortized analysis to improve efficiency.

- Large-Scale Data Analysis | Python
  - Built recommendation systems using frequent-itemset mining and dimensionality-reduction methods. Conducted link and item-similarity analysis to uncover relationships in social-network datasets.

- Information Retrieval System | Java
  - Created a Lucene-based search engine for Yelp data. Designed indexing, retrieval, and ranking modules, and developed a user interface to visualize query results.

- Database Management & Optimization | MySQL
  - Designed ER models and relational schemas, implemented complex queries, and optimized indexing strategies to enhance database performance and query speed.