Apostolos Dedeloudis

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EDUCATION

Bocconi University   **Milan, Italy**
B.Sc. in Economics, Management, and Computer Science (Taught in English)   *September 2023 – Present*
GPA: **27.20/30 (**Expected Graduation: July 2026)
Exchange Program: **Northeastern University (Boston, USA**) - Informational Economics, Stochastic Processes
Relevant Coursework: Machine Learning, Mathematics (Calculus & Discrete Mathematics), Statistics, Computer Science, Game Theory, Big Data & Analytics

Pierce, The American College of Greece   **Athens, Greece**
International Baccalaureate (IB) & Greek High School Diploma   *September 2017 – May 2023*
Final Grades: **43/45** for IB & **19.2/20** for Greek High School Diploma
Maintained a 35% academic scholarship for the first 4 years – increased to 50% for the last 2 years
Achieved top grades in Computer Science, Mathematics, and Business Management

Courses: Introduction to **Financial Engineering and Risk Management** (Columbia University) – In Progress, **Finance & Quantitative Modeling** for Analysts (Wharton Business School)**,** AmplifyME Finance Accelerator (In partnership with Morgan Stanley & UBS)

WORK EXPERIENCE

Alpha Bank   **Athens, Greece**
Market Risk Intern   *June 2025 – July 2025*
- Engineered proprietary pricing models for commodity futures & swaps using Machine Learning and Mean-Reversing Regressive models to support internal valuation and satisfy EU requirements for PRIIPs.
- Quantified exposure on fixed-income portfolios via PFE, xVA and VaR analytics, then sized and back-tested hedges that reduced potential loss by double-digit percentage points.
- Collaborated with front office and compliance teams to migrate to a new reporting pipeline, enhancing transparency and decision-making for €500M+ in AUM.

KPMG Advisory   **Athens, Greece**
Data & Analytics Intern   *June 2024 – July 2024*
- Actively contributed to the **planning** and **implementation** of ETL pipelines for corporations and government institutions.
- Analyzed 25 reports from various Business Intelligence tools (PowerBI, Tableau, Qlik) and produced source-to-target mappings, outlining the connections between various databases and tables.
- Produced **client deliverables** presenting implementation roadmaps and blueprints for future projects.

DEMO Pharmaceuticals S.A.   **Athens, Greece**
Software Development Intern   *June 2022 – July 2022*
- Partnered with developers **to develop internal tools that digitize business workflows**, enhancing process efficiency by 30%.
- Developed back-end and front-end applications that utilized the company's existing data pipelines
- Designed new data pipelines to support ML training for supply chain management

PROJECTS

Agentlify (https://agentlify.co/ / https://github.com/agentlifylabs/RoBC)   *July 2025– Present*
Developed a full-stack application to build and optimize LLM agents from start-to-finish. Built a complete front-end for the user to configure their LLM agent, as well as a secure back-end that used GMM clustering and a multi-armed bandit RL algorithm using Bayesian clustering to select the best model for each agentic step. Also implemented optimizations such as context distillation, custom eval upload to guide routing decisions, and automatic skills retrieval into context to improve agent accuracy. Testing showed a 50% average overall cost reduction while agent performance dropped by approximately 5%.

Flowsage (https://flowsage.co)   *November 2023 – June 2025*
Used **AI foundational models** to create a comprehensive platform for flowchart and diagram design that shortened the **flowchart design process by 90%,** allowing users to build better idea visualizations and simplify complex processes with one click.

SKILLS

Technical Skills: Python (TensorFlow, Numpy, OpenCV), JavaScript (React.js, Node.js, Express), SQL, R, Power BI, Bloomberg Terminal
Languages: English (Native), Greek (Mother Tongue), French (Upper Intermediate – French Institute of Greece C1 in Literature), Spanish (Intermediate – Instituto Cervantes A2), Italian (Limited Working Proficiency)

ADDITIONAL INFORMATION

Student Associations:
- Head of Research at **Bocconi Statistics and Data Science Association**
- Co-Founder/Head of Research at **Bocconi Students for Quantitative Finance**
- Co-Founder/Head of IT & Mentors at **theHackLab Bocconi Students**

Publications: "The Portable Text Annotation Tool" (**LLM training platform** – University of Michigan, Dec. 2022)
Events: UPenn Blockchain Conference (Invited to attend and participate in the AI/ML & Blockchain Hackathon – Won prizes in 2024 and 2025), Web Summit 2023 (Invited as a developer)
Hobbies: Volunteering in the largest non-profit in Greece "To Hamogelo Tou Paidiou" (2021 – Present), Weight Training, Managing personal stock & crypto portfolio (since 2022), Cooking
Interests: Artificial Intelligence, Stochastic Models, Quantitative Finance