

TOPICS OF THE SEMINARS

Data Science II^o

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Mariusz Kicia, PhD, Associate Professor

Proposed areas:

1. Data analysis and ICT solutions for the Faculty of Economics (e.g. dashboards, data integration, data analysis, apps)
2. Capital market data analysis and application (e.g. testing investment strategies, portfolio management tools, market volatility analysis)
3. Analysis of investment risk tolerance (KYC / MiFID)
4. Bankruptcy risk prediction with ML
5. Fintech
6. Data analysis and ICT solutions for automated business valuation
7. Agent-based modeling
8. Other, not included

Robert Zajkowski, PhD, Associate Professor

Proposed areas:

1. Family businesses – economic and non-economic aspects of operation and development
2. Economic efficiency of family and non-family businesses - comparative analyses
3. Business models of family businesses and their economic and financial consequences
4. Sources of financing (supporting) business activities
5. Alternative forms of financing business activity (e.g. crowdfunding)
6. Support for entrepreneurship by business environment institutions



7. Economic and financial analysis of the company from the perspective of various stakeholder groups (including pre-emptive bankruptcy risk analysis)
8. Creation, operation and development of start-ups, spin-offs and spin-outs
9. Value of an enterprise or an organised part of an enterprise - valuation and management
10. Sustainable development - the role of companies and institutions

Kamil Filipek, PhD

Proposed areas:

1. Natural Language Processing (different languages allowed)
2. Classification and clustering methods (binary, multiclass, multilabel classification)
3. Fine-tuning and use of GPT models
4. Statistical modeling (regression, structural equation models, actor-partner interdependence models, factor analysis)