

NEVENA DUGANDŽIJA, Ph.D.

RESULT - DRIVEN
DATA SCIENTIST AND
MATHEMATICIAN



 www.linkedin.com/in/nevena-d

 <https://github.com/absolut07>

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PROFILE

Enthusiastic and innovative professional with a proven track record in leveraging advanced analytical skills to extract actionable insights from complex data sets. Since 2019, I have honed my expertise in data science, contributing to successful data-driven strategies. I dedicated 9 years to pioneering mathematical research, earning a Ph.D. in mathematics.

EDUCATION

PHD IN MATHEMATICS

Faculty of Sciences, Novi Sad

PhD thesis: Nonlinear Schrodinger equation with singularities

2013 - 2021

MSC IN MATHEMATICS

Faculty of Sciences, Novi Sad

Master thesis: Sobolev spaces with negative indices

2013 - 2021

BSC IN MATHEMATICS

Faculty of Sciences, Novi Sad

2007 - 2011

SKILLS

- Mathematics
- Machine Learning
- Deep Learning
- Problem-Solving
- Cloud computing

EXPERIENCE

DATA SCIENTIST

Robert Bosch d.o.o, Belgrade

2022 - Present

- Insights focused on manufacturing processes: from data ingestion, and cleaning, to delivering a scalable ML (deep learning) solution
- NLP analysis of product reviews - BERT, OpenAI
- Cloud environment: Microsoft Azure - Databricks, AzureML, Azure Data Factory, Azure DevOps
- Power BI, SQL

TEACHING ASSISTANT

Faculty of Sciences, Novi Sad

2013 - 2022

- Research in partial differential equations, statistics and deep learning
- Some of the subjects I was engaged in: Software packages for data analysis, Mathematical analysis, Statistics, Probability, Functional analysis, Fixed - point theory

INTERN

Robert Bosch GmbH, Stuttgart

2012

- Worked in the R & D department, the section for image processing. My project was about optical character recognition.

INFORMAL EDUCATION

IADS - ANALYTICS AND DATA SCIENCE SUMMER SCHOOL

University of Essex, United Kingdom

2-weeks intensive course on deep learning

2022

FREELANCE WORK

I have done some work related to statistics and making mathematics tests for students. For more details see [my Upwork account](#).

KEY STRENGTHS

- Cross - functional collaboration
- Strategic vision
- Problem-solving
- Learning new skills and processes
- Efficiency
- Organizational skills
- Creativity

PUBLICATIONS

2023 [Generalised solutions to linear and non-linear Schrödinger-type equations with point defect: Colombeau and non-Colombeau regimes](#)

2022 [Singular solution of the Hartree equation with a delta potential](#)

2020 [A Deep Learning Algorithm for Solving the Cubic Schrödinger Equation](#)

2019 [Generalized solution to multidimensional cubic Schrödinger equation with delta potential](#)

ADDITIONAL INFORMATION

TOOLS

- Pandas, NumPy, Seaborn
- Tensorflow
- azure-ai-ml
- MLflow
- Spark
- Basics of R
- Basics of Matlab
- TIBCO Statistica

UNIVERSITY PROJECTS

Analyzing parameters of river Vrbas

- Predicting values of a high - frequency time series using neural networks

Distributed optimization

- For more details see [my GitHub account](#)

Water quality in Novi Sad

- Visualizations, time series analysis



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