



## Dominika Stipić

Master of Science in Computing  
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### Education

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*Future PHD candidate in the field of NLP research or NLP applied in the economics and international affairs*

- 10/2019–2/2022 MS Computer Science, [Faculty of Electrical Engineering and Computing](#), Zagreb, Croatia
  - Thesis topic: „[Semantic segmentation of buildings in satellite imagery](#)”
  - [Recommendation letter](#) from prof. dr. sc. Siniša Šegvić
  - Additional activities: English language Courses; Communication skills; Programming Language R

- 10/2016–7/2019 BS Computer Science, [Faculty of Electrical Engineering and Computing](#), Zagreb, Croatia
  - Thesis topic: „[Convolutional Models for Person Localization in Sports Broadcasts](#)”
  - Additional activities: Haskell, **Java Programming Language**, Linux, Arduino and Raspberry PI workshops, Discrete & Continuous Mathematics; CubeSat Satellite Section;

### Skills and Relevant Courseworks

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- Technologies and Languages:
  - Java, Python -> *most proficient with this programming languages*
  - SQL, R, JavaScript, C, Haskell, Linux
  - PyTorch, Tensorflow, Excel, Docker
- Skills: Writing and Communication; System Modelling; Presentation; Engineering mindset; Research; Analysis, People Skills
- Relevant Coursework: Algorithms and data structures; Machine learning; Text analysis and retrieval; Deep learning; Financial mathematics; Stochastic processes; Fuzzy, evolutionary and neuro computing; Discrete & Continuous Mathematics; Software Design; Statistical Data Analysis; Operational Research

### Industry Experience: 29 months = 2.41 year

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*Current: Career break*

- 01/2024-08/2024, Stipic Construction company (*Gradevinarstvo Stipić*), Croatia, Zagreb
  - URL management, Data extractiong and analysis, Android app development, Flask website development, Google Cloud, data science projects, webscraping, big tech job miner, literature review
  - Technology: Python, Jupyter Notebook, Databases, Linux, Android, Spreadsheets, Git, Google Cloud & Digital Ocean management
- 12/2022-08/2023 Traineeship in Market Opearations, [European Central Bank](#), Frankfurt at Main, Germany
  - Market Operation Analysis / Market Operations Framework Section / [PM Angelika Lagerblom](#)
  - Technology: Python, Jupyter Notebook, Oracle Database, Tableau, Excel, Bloomberg, Dagster
  - Highlighted Skills: Essentials of Monetary policy and Economy, Presentation skills, Communication skills, Data analysis, Research, Technology.
- 03/2022-08/2022 Software Engineer Trainee, [Amphinicy Technologies](#), Zagreb, Croatia
  - Software engineer for the satellite industry products [1].
  - Technology: Java EE, WildFly server, Docker-compose, IntelliJ, Git
  - Highlighted Skills: Software design and implementation, Managing large code base, technical documentation  
Written and oral communication, Learning domain specifics
- 04/2021-08/2021 ML engineer Trainee, [PhishAR](#), Zagreb, Croatia
  - Research and development of end-to-end ML pipeline for computer vision tasks.
  - Technology: Python, Tensorflow, Git, Docker, Google Cloud Platform, Amazon Mechanical Turk, Data Version Control
  - Highlighted Skills: Project planning, Independence, communication
- 07/2019-10/2019 Student internship in data science/engineering, [CROZ](#), Zagreb, Croatia
  - Design algorithm for rearranging warehouse layout to increase its throughput.
  - Technology: Python, Apache Spark, Oracle database, SQL
  - Highlighted Skills: Project presentation, Data analysis and engineering, knowledge extraction

### Academy Experience: 2 semestars ~ 10 months = 0.8 year

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- 2020 Researcher, Text Analysis and Retrieval Course, [DSAA 2020 conference](#)
  - Name: „Are you Human? Detecting Bots on Twitter Using Bert”
  - The paper is indexed in [IEEE xplore](#) and [ResearchGate](#).
  - Model for text classification using BERT, feature exploration, exploratory data analysis of tweets
  - Presenting work on the online conference [2].
- 2020 University days event, 2020 [3]
  - Presenting my paper to potential students and answering student questions.
- 2019 Research assistant, [FERsat project](#)
  - The aim of the project was monitoring of light pollution from space.
  - The paper is indexed in [IEEE xplore](#).
  - Remote satellite imaging systems, hyperspectral imaging, research on night-time multi-band image datasets, automatization and weekly presentation in front of professors

[1] Contributing to Amphinicy product - <https://www.amphinicy.com/news-and-press/news/monica-v62-has-launched>

[2] DSAA conference, Day 2 - <http://dsaa2020.dsaa.co/technical-program/>

[3] Smotra sveučilišta - <https://smotra.fer.unizg.hr/?p=215>