

# Ladislav Vrbsky

MSc in AI, all out for Artificial Intelligence (AI) and Data since 2019. Executes Machine Learning (ML) projects from analyses and prototypes to production and is developing a data platform, all on cloud, leveraging Python and SQL. Interacts with stakeholders and devs and trains others. Is curious, honest, multi-cultural, ambitious and passionate for AI/ML, Data, Cloud and Leadership.

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## EXPERIENCE

- **Data Scientist** at Vibe ☞ [AWS, Azure, Python, SQL] Jan 2019 – Present | BRA
  - Developed and was responsible for a supervised ML project with a data architecture and MLOps, using AWS, from prototypes to production
  - Proactively co-created and structured an in-house Data Analytics team, its offering and content
  - Held numerous meetings with stakeholders, delivering, discussing and pitching data projects
  - Promoted company's data-driven culture by sharing knowledge, besides teaching English
  - Controlled COVID-19 by collecting API data using Azure Functions and visualizing them with Power BI
  - Delivered data PoCs leveraging the AWS and Azure clouds
  - Improved company's management by delivering Business Intelligence (BI) reports in Power BI
  - Avoided client's significant expenses and drove important business decisions by analyzing customer data
- **Cloud Data Engineer & Architect** at Órbita ☞ [GCP, Python, SQL] Apr 2020 – Present | BRA
  - Architected, structured and documented an automated data project on Google Cloud Platform (GCP)
  - Collected public data from the web by creating a serverless ETL pipeline
  - Managed remote developers and specified a sub-project of another data collection
  - Delivered data views for business analysts by transforming data with Python and SQL
  - Created a flexible visualiser of tabular data using Python
  - Managed the product's GCP account
- **Web Developer** at Vibe ☞ [Java, C#, SQL, REST] Oct 2017 – Jan 2019 | BRA
  - Developed, fixed, improved web apps and services (mostly back-end) for Banpara bank
  - Boosted 3x tech support speed by improving automation tool (for 1 frequent issue)
- **Applied AI Researcher** at UFPA ☞ [Matlab] Jan 2016 – Apr 2018 | BRA
  - Compared clustering algorithms and respective configs w.r.t. communication delay → MSc thesis ☞
  - Implemented a clustering-based topology optimizer for Smart Grid networks; Open-Sourced ☞
- **Junior Software Developer** at AgentFly ☞ [Java] Apr 2013 – Aug 2014 | CZE
  - Implemented UAV (a.k.a drone) collision avoidance protocol for Air traffic management simulation
  - Analyzed and optimized route generation heuristic by extrapolating the collision-based utility values

## PROJECTS & PUBLICATIONS

- **ICNSC 2017 ☞ (Intl. Conference):** Clustering techniques for data network planning in Smart Grids ☞
- **Fraud Detection in Energy Grid:** Neural Networks, Decision Trees, Fuzzy Logic, Genetic Algorithms
- **Memetic algorithm for Traveling Salesman Problem:** Genetic Algorithm with local search
- **Other ML:** Transfer learning (TensorFlow), Simple client-side ML (TensorFlow.js), Color quantization (Matlab)

## SKILLS

- **Languages, Libs, Tools:** Python, SQL, sklearn, pandas, git, Java, C#, Matlab | Eng, Por, Cze, (Ger)
- **Competencies:** ML, Statistics, Cloud data tools & archit. (AWS, GCP, Azure), Public speaking, Teaching, BI dev
- **Interests:** Leadership, TensorFlow, PyTorch, Spark, Kafka, Reinforcement Learning

## EDUCATION

- **Federal University of Pará (UFPA) ☞** MSc – *Applied Computing: Artificial Intelligence* Belem, PA, BRA
- **Kansas State University (KSU) ☞** MSc period – *Comp. Science (intl. exchange)* Manhattan, KS, USA
- **Czech Technical University (CTU) ☞** BSc – *Computer and Informatic Science* Prague, CZE
- **Extra:** Azure ML Scholarship (Udacity), Data Science (AWS, Udemy), Data Engineering (Coursera, Qwiklabs)