

# Ladislav Vrbsky

Curious, honest, multi-cultural, ambitious, passionate for Machine Learning (ML), Artificial Intelligence (AI), Leading and Learning; MSc in Computer Science/AI; Strives to apply best practices in AI/ML/Data projects, develop team and company.

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## EXPERIENCE

- Data Scientist** Jan 2019 – Present  
Vibe (Technology for businesses) [Python, SQL, Pandas, sklearn, Spark, Azure, Hive, Sqoop, Shell]  
*Data and Big Data tasks at a state bank Banpara, among other clients, leveraging the Hadoop, cloud and ML*
  - Proactively co-created and educated an in-house data science team
  - Processed and analyzed data to drive important business decisions, avoiding a significant unnecessary expense
  - Proactively delivered results to client leading to company recognition, increased billing and more projects
  - Led transformation to being data-driven by evangelizing and educating stakeholders about Data and ML
  - Created PoCs leveraging sklearn, Spark ML and cloud to improve company's offering
  - Created ETL/ELT data pipelines
  - Briefly administered and configured a Hadoop cluster (Cloudera)
  - Created Business Intelligence (BI) dashboards for business analysts
  - Held meetings with stakeholders, delivering and discussing data projects
- Software Developer - Web** Oct 2017 – Jan 2019  
Vibe (Technology for businesses) [Java, C#, SQL, REST, JS, ASP.NET, SVN]  
*Internet banking web apps, management systems, web services for a state bank Banpara*
  - Developed, improved, and maintained a variety of new and legacy systems (mostly back-end)
  - Boosted 3x tech support speed by improving automation tool (for 1 frequent issue)
  - Crushed high-impact bugs in production
- Applied Artificial Intelligence Researcher** (CAPES scholarship) Jan 2016 – Apr 2018  
Operational Research Lab (Electrical Engineering faculty lab) [Matlab, ~~ME~~X, Git]  
*Smart power grid communication optimization research through cell positioning - Related to MSc Thesis*
  - Implemented a clustering-based topology optimizer for networks w.r.t. communication delay (Open-Sourced)
  - Compared clustering algorithms and >50 k-means/model configs, resulting in MSc thesis: *Clustering-driven equipment deployment planner and analyzer for wireless non-mobile networks applied to Smart Grid scenarios*
- Junior Software Developer** Apr 2013 – Aug 2014  
AgentFly Technologies (Startup born at the AI Center) [Java, CVS]  
*Air traffic management simulation for what-if analysis and future concepts*
  - Implemented event-oriented collision avoidance protocol for UAVs, a.k.a drones
  - Optimized heuristic of route generation by extrapolating the collision-based utility values
  - Analyzed 4 heuristics of route generation w.r.t. computational and communication costs, and 4 other metrics

## PROJECTS & PUBLICATIONS

- ICNSC 2017 (Intl. Conference): Clustering techniques for data network planning in Smart Grids:**  
Determines deployment positions of Base Stations in a network. Compares clustering algorithms.
- Fraud detection in energy network:** Neural Networks, Decision Trees, Fuzzy Logic, Genetic Algorithm
- Memetic algorithm for Traveling Salesman Problem:** Genetic Algorithm with local search
- Other ML:** Transfer learning (TensorFlow), Simple app using TensorFlow.js, Color quantization (Matlab)

## SKILLS

- Languages:** Python 3 yrs, SQL 2 yrs, Java 4 yrs, C# 1 yr, C/C++ 1 yr, Matlab 3 yrs, JS | **Eng, Por, Cze, Ger**
- Competencies:** (Un-)Supervised ML, Statistics, Presentation & Public speaking, BI Dashboards
- Interests:** Spark, Kafka, TensorFlow 2, PyTorch, Cloud, Reinforcement Learning, Neural Nets | Leadership

## EDUCATION

- Federal University of Pará (UFPA)** | MSc – Applied Computing: Artificial Intelligence Belem, PA, BRA
- Kansas State University (KSU)** | MSc period – Computer Science (intl. exchange) Manhattan, KS, USA
- Czech Technical University (CTU)** | BSc – Computer and Informatic Science Prague, CZE