Ladislav Vrbsky

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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.

EXPERIENCE

- **Data Scientist**   Jan 2019 – Present
  Vibe Desenvolvimento (SW solutions comp.)   `[Python, SQL, Pandas, sklearn, Spark, Hive, Sqoop, Shell]`
  Data and Big Data tasks at a state bank Banpará, leveraging the Hadoop ecosystem and ML
    - Proactively co-created and educated an in-house data science team
    - Processed and analyzed data to drive important business decisions (Python, Pandas, Scikit-learn)
    - 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 small PoC projects leveraging sklearn and Spark ML to help stakeholders widen their horizons
    - 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, presenting and discussing data projects

- **Software Developer - Web**   Oct 2017 – Jan 2019
  Vibe Desenvolvimento (SW solutions comp.) `[Java, C#, SQL, CI/CD, JSF, JSP, AngularJS, JS, ASP.NET, SVN]`
  Internet banking web apps, management systems, RESTful web services for a state bank Banpará
    - Developed, improved, 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, LaTeX, 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 (Commercial/university startup at Agent Technology Center)   `[Java, XML, CVS]`
  Large-scale multi-agent project, that models and simulates air traffic control
    - 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 2 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, Probability, Statistics, Hadoop ecosystem, Presentation & Public speaking
- **Interests**: Spark, Kafka, TensorFlow 2, PyTorch, Cloud comp., Reinforcement Learning, Neural Nets | Leadership

EDUCATION

- **Federal University of Pará (UFPA)** | GPA 3.889   Belem, PA, BRA
  MSc – Applied Computing: Artificial Intelligence
- **Kansas State University (KSU)** | *MSc period – Computer Science (intl. exchange)*   Manhattan, KS, USA
- **Czech Technical University (CTU)** | *BSc – Computer and Information Science*   Prague, CZE