Katerina Bosko, PhD

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SF Bay Area, L2 Visa EAD

TECHNICAL SKILLS

Languages: Python, SQL

Packages: pandas, numpy, scikit-learn, seaborn, matplotlib, pytorch, nltk

Tools: Git, Jupyter, Tableau, Advanced Excel, Alteryx

SELECTED PROJECTS (2018-2019)

Full portfolio at my blog: https://www.cross-validated.com/

- *IPO Bubble: Supervised ML model to predict IPO success*

  Scraped, cleaned and modelled IPO data using GradientBoostingClassifier in scikit-learn to predict the IPO success on its first day of trading

- *Customer Segmentation with Unsupervised ML*

  Cleaned data & applied KMeans clustering using scikit-learn to identify segments of the population that form the core customer base for a mail-order sales company.

- *Flower Image Classifier with Deep Learning in PyTorch*

  Built a command line application to train an image classifier in PyTorch using transfer learning to predict the flower type.

- *Increasing Profits for Watershed Properties*

  Extracted relevant data with the advanced MySQL queries and created interactive Tableau dashboard based on data analysis.

PROFESSIONAL EXPERIENCE

University of Bremen, Germany

Researcher, Managing Editor of online journal "Ukraine-Analysen"   **2013-2018**
(3500+ subscribers, biweekly)

- Developed high impact research and content of 60+ issues.
- Created 400+ data visualizations that accompanied the issues.
- Collaborated with 100+ academics worldwide.
- Wrote 30+ analytical articles.
- Presented at 25+ public events.

Research Assistant/ PhD Candidate   **2009-2013**

- Worked on a PhD thesis, tutored "Intro to Comparative Politics", supervised a B.A. thesis, mentored interns.

EDUCATION

PhD in Political Science	University of Bremen (Germany)	**2017**
MA in International Relations	University of Eichstaett-Ingolstadt (Germany)	**2009**
BS in International Information	Khmelnitskyi National University (Ukraine)	**2007**