HARMEET KAUR, PhD
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Skills:

- **Tools/techniques**: MS Office, Machine Learning (supervised and unsupervised), Scikit-learn, Keras, Tensorflow. Jupyter notebook, Pandas, Matplotlib, SciPy, NumPy, API, MongoDB, PostgreSQL, HTML, CSS, D3.js, Leaflet, Tableau, Plotly, Dashboard building, Extract Transform Load (ETL), Apache- Spark, AWS S3, High Performance Computing

- **Programming**: Python (intermediate), R (fundamentals), Perl (fundamentals)

- **Additional**: Collaborative, decision maker, storyteller, creative and conceptual

Projects:

1.LubDub:

- Built a machine learning based app to assess the potential risk for heart disease based on analysis of big data on associated risk factors.
- Performed EDA, feature selection, data-preprocessing and training, hyperparameter tuning and evaluation of model using Scikit-learn, Tensorflow and Keras.
- Final model predicts risk for heart disease based on user inputs. Tableau dashboard was deployed on heroku (https://lubdub-heartsense.herokuapp.com/).(Github: https://github.com/msfa12th/heartsense).

2. Paradise:

- Led a team of four to build an interactive dashboard for top 10 death causes in the United States.
- Performed data wrangling using Pandas and deployed database on to cloud MongoDB. Created API routes using FLASK.
- Dashboard showcases that cancer and heart disease have persistently been the leading cause of death. Accessible on http://livebetter.herokuapp.com/. (Github: https://github.com/Harmeet2504/full-stack-web-app-project).

3. What-if Analysis of Residential Real Estate:

- Led a team of four to examine the impact of parameters affecting valuation of residential real estate in NJ.
- Conducted data cleaning, statistical analysis and created visualizations using Pandas, NumPy, SciPy, Matplotlib.
- The analysis was significant for decision making about the best places to rent or buy residential properties in New Jersey. (https://github.com/Harmeet2504/Project-What-if-analysis-of-residential-real-estate/).

Experience:

- **DBT Research Trainee**, Bioinformatics Infrastructure Facility (BIF), Gauhati University, May-Oct 2010.
  Role: Sequence analysis and phylogenetic studies of GCH1 gene product.

- **Research Intern**, Regional Medical Research Centre, Dibrugarh, Jun-Jul 2008.
  Role: Standardization of DNA extraction and PCR protocols to study the endothelial nitric oxide synthase gene.

- **Coordinator**, student's affairs, Regional Centre for Biotechnology, Delhi-NCR, 2013-2016.