Nilesh Hegde

Github - nilesh-hegde

Email : hegde[dot]nil[at]northeastern[dot]edu

Mobile : +1-857-437-9984

Education

- **Northeastern University (Khoury College of Computer Sciences)** — Boston, MA
  Master of Science in Artificial Intelligence; GPA: 3.9 — *Sep. 2022 –*
- **BMS College of Engineering** — Bangalore, India
  Bachelor of Engineering in Computer Science and Engineering; GPA: 3.66 (9.10/10.0) — *Aug. 2016 – July. 2020*

Technologies

- **Programming Languages** - Python, SQL, C, C++
- **Databases** - PostgreSQL, MySQL
- **Tools and Utilities** - Excel, Jupyter, matplotlib, scikit-learn, numpy, pandas, scrapy
- **Skills** - Regression, Classification, Time series analysis
- **OS** - Windows, Linux

Experience

- **DigiTop** — Bangalore, India
  Data Scientist — *Apr 2021 - Feb 2022*
  - Built Regressive models to perform sales forecasting yielding a 24% increase in sales.
  - Developed a Logistic regression model to boost sales of merchandise by 13.5%.
  - Proposed and incorporated python scripts to automate data extraction and manipulation saving 11 hours per week of manual work.

Internships

- **Unilever** — Bangalore, India
  Data Scientist — *Sep 2020 - Jan 2021*
  - Developed scripts to automate Causality tests and implement Vector Auto Regressive model for forecasting sales leading to $500,000 investment.
  - Created multiple analysis scripts that automated data extraction and preprocessing saving 32 hours per month of manual reporting work.
  - Designed a module for a mobile application to generate closest warehouse for a distributor which reduced the cost of project by $13000.
- **National Institute of Technology Karnataka (NITK)** — Surathkal, India
  Research Intern — *Jun 2019 - Aug 2019*
  - Mentored by Professor Suresh Hegde in the field of Graph Theory focusing on Graph Coloring and Chordal Graph problems.
  - Analyzing the variation in complexities on application of various algorithms on Minimum vertex cover problem.
- **Healthplix** — Bangalore, India
  Software Engineer — *Jun 2018 - Jul 2018*
  - Improved performance tuning and query optimization resulting in 17% reduction in query time.
  - Developed python scripts to automate data extraction and manipulation saving 4 hours per week of manual work.
- **Birla Institute of Technology and Sciences Pilani (BITS Pilani)** — Hyderabad, India
  Research Intern — *Jun 2017 - Jul 2017*
  - Mentored by Professor Nandi Soumen in the field of Combinatorics and Discreet Mathematics.
  - Introduced to Static Computational Geometry problems on Polygon triangulation, Boolean operations on polygons and Mesh generation.

Projects

- **Fake news detection**
  Python - nltk, scikit-learn, pandas, numpy
  - Preprocessed data by performing normalization, tokenization and lemmatization.
  - Compared the performance of Logistic regression, Random forest and Support vector machine classifiers on the data.

- **Time Series analysis and forecasting**
  Python - fbprophet, pylab, pandas, numpy, matplotlib, statsmodels
  - Performed time series analysis using ARIMA model and Prophet model.
  - Compared future forecasts and inspected different trends.
- **Exploratory data analysis**
  Python - matplotlib, seaborn, plotly, pandas, numpy
  - Analysed consumer trends on Google Playstore dataset.
  - Created interactive plots to visualize various trends.

Research Publications

- Hegde, Nilesh & Nadig, Sumukha & Nayak, S Jyothi (2020). Path trajectories in 2-d motion planning. International Journal of Future Generation Communication and Networking Vol. 13, No. 3, 2020, pp. 1987–1995. (link)