

Nagaraj Bhat

Deakin University graduate.

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PROFILE

A Graduate from Deakin University with previous experience as a software developer. Looking to make meaningful impact in the organization by extracting insights from data and building machine learning products. Have an ability to work independently, learn on the go and solve difficult problems.

KEY SKILLS

- Core Languages: Python, Golang.
Basic understanding: javascript, R, ruby, html, css, jquery, nodejs, java.
- Frameworks: flask, Django, Hugo.
- Libraries : Numpy, pandas, scipy, tensorflow.
- Visualisation tools : matplotlib, seaborn, folium for geospatial visualizations, tableau.
- Version control : Git, github, gitlab.
- Database: Postgresql, sql.
- Familiarity with Machine learning workflow – Data pre-processing, EDA(Exploratory data analysis), Feature engineering, Model building – train and test, Evaluation and metrics.
- Practical understanding of supervised and unsupervised algorithms, also regression and classification models, ensembling models, neural network.
- Understanding of Statistics, probability and linear algebra.
- Communicating findings using visualization, data stories, blogs, presentation, videos, etc.

PROFESSIONAL EXPERIENCE

Company: LAUNCHYARD

Jun 2016 – Dec 2016

Job Title: Software Developer

IT start-up in Bangalore with a Product called AirCTO. It is a web based interview system where any company could request candidate interviews, which would be conducted by working professionals from other companies. There by reducing developer's wastage time. The company is currently acquired by Gojek.

- Learnt a new programming language "Golang" (even though was hired for python). Was able to start contribution to codebase within a week.
- Worked with python based Django framework for backend development. Performed unit test, maintained documentation.
- Wrote technical blogs, Including one on "Using postgresql full text search with golang". The implementation improved efficiency of the company website search engine.
- Technologies used: gitlab, emacs, Django, golang, python, postgresql, ubuntu.
- Designed database (model relations).

QUALIFICATIONS

Graduate, Master of data analytics

Deakin university

2019

Melbourne

B.E, Computer science

VTU

2015

Bangalore

CERTIFICATIONS

Pandas certificate : Completed Kaggle Micro-course on Pandas.

2020

Pandas is a data analysis and manipulation tool built on top of python.

Machine Learning certificate : Complete Kaggle course on “Intro to Machine learning”.

2020

The course covered EDA, model building and validation, random forest.

Microsoft certificate: Received a certificate from Microsoft MEC (Massively Empowered Classrooms) course.

2015

PERSONAL PROJECTS

- **Visualized Agriculture data (Karnataka) in map using python’s Folium (based on leaflet.js).**
 - Addressed questions like “Where do Top agriculture commodities in Karnataka arrive at?”, “For each of the districts what are the largest commodity?”
 - Built a flask app for interactive map visualization. It takes commodity name in search field and outputs an interactive map showing distribution of arrival of commodities in various districts.
 - Data preparation –merging, sorting, filtering, grouping data using pandas.
 - Created tiles, markers, choropleth map, created custom icons for folium markers..
 - Displayed multiple data views on the same map using feature group and layer control.
- **Built Interactive map of the hospitals in Victoria:**
 - Combined two datasets – hospitals in Victoria, postcodes and their location data.
 - The map has three views –
 1. Hospital location view – This is a marker for all the hospitals in Victoria with their details such as Address and whether it is a public/private hospital.
 2. Locality view – The use case is real estate based, i.e. if you are looking to stay in a locality with lots of hospitals this map can be used to make that decision.
 3. Heat map- For the density of hospitals in a region. It has a travel based use case for patients, i.e. if you are travelling outside the Melbourne city this map can be used to determine the route such that there are lots of hospitals on the way.
- **Australian bushfire - map analysis**
 - Compiled and uploaded the latest Australian bushfire data (Sep 2019 to Jan31, 2020). The data was provided by NASA satellite’s MODIS and VIIRS.
 - Found the top affected regions in Australia, by using FRP (Fire Radiation Power) as a measurement. Also found the dates on which Fire activity was at its highest.
 - Plotted the timeline of Bushfire. Also mapped the change in density of Fire activity across Australia.
 - **Technologies – Pandas, seaborn, Python’s folium, kaggle.**
- **Open source contribution** – Contributed to Openstreetmap – Added wheelchair accessibility information to over 60 tram stops across Melbourne. This was part of a Mapping Melbourne meetup challenge to improve navigation for the disabled.

VISA DETAILS

Subclass 485 – full working rights in Australia.

PROFESSIONAL REFERENCES

Available on request