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AMEYA KARNAD

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EDUCATION

Columbia University   *New York, NY*
Master of Science, Data Science, GPA: 3.77/4   Aug 2018 - Dec 2019
Courses: Algorithms, Exploratory Data Analysis & Visualization, Personalization, Probability and Statistics, Machine Learning, Statistical Inference & Modeling, Applied ML, Data Science & Public Policy, Analysis of Social Networks and Crowds, Applied Deep learning (Audit), Capstone Project (Bloomberg - Editorial Classifier)

Visvesvaraya Technological University   *Hubli, IND*
B. V. Bhoomaraddi College of Engineering and Technology   Jul 2012 - Jun 2016
Bachelor of Engineering, Information Science, GPA: 9.42/10 (Silver Medalist)

SKILLS

Languages and Technologies: Python (pandas, numpy, scikit-learn, nltk, tensorflow, networkx, genism, spacy), R (ggplot2, dplyr, data.table, R-shiny), JavaScript (D3), JAVA, SQL, MongoDB, Docker, Kubernetes, PSM 1 (Professional Scrum Master)

PROFESSIONAL EXPERIENCE

Software Engineer II - *Oracle*   *Conshohocken, PA*
Technologies: *Python, JAVA, Oracle Analytics Server*   Mar 2020 - Present
- Building analytics and dashboard capabilities Oracle Transportation Management (OTM) Software.
- Work includes developing of key features, that help customers utilize the power of Machine learning and Data analytics

Adjunct Associate Faculty - Data Science Consulting, *Columbia University*   *New York, NY*
Awards: *"Excellence in Course Assistantship" for the course. Link*   May 2020 - Jan 2021
- Directed and guided students develop Data Science Projects in a Consulting-based environment

Data Science Research Engineer - *EdLab, Columbia University* (Data Science Scholar's Program)   *New York, NY*
Technologies: *Apache PredictionIO, MongoDB, EZProxy, Docker*   Jun 2019 - Dec 2019
- Development and research on Search and Recommendation systems, Social Network Analysis, and Topic Modeling.
- Worked on building Data pipelines for End-to-End Data Science Applications.

Software Engineer - Micro Focus (spun-off from Hewlett Packard Enterprise)   *Bangalore, IND*
Awards: *2nd place in a site-wide Hackathon*   **Technologies**: *Kubernetes, Docker, Python, SQL*   Sept 2016 - Jun 2018
- Worked with agile teams to design, test and automate REST APIs for providing analytics insights into software security compliance and risk data for a data-center automation product.

SELECT DATA SCIENCE PROJECTS (GITHUB LINK)

Editorial Classifier, Bloomberg - Columbia University
Languages: *Python(Pytorch, TensorFlow, spacy), R (ggplot)*   **Applications**: *NLP, Classification, Deep Learning*
- Worked with unstructured news sources to build classifiers to identify editorial content for Bloomberg Terminal.
- Developed traditional classification algorithms with text-based features like n-grams, Parts of speech, Named entities etc.
- Trained Natural Language Processing based Bidirectional LSTM, BERT, and XLNET Models for classification Link.

Educational Recommendation System, Edlab
Languages: *Python (nltk, predictionIO), SQL, MongoDB, AWS*   **Applications**: *Recommendation systems*
- Developed a multi-platform database pipeline for physical and digital user behavior, and research content using AWS.
- Built a hybrid recommendation system on multiple digital learning platforms and evaluated it using AB testing.

Does Climate Change and Natural Resource Storage Cause Conflict? *Columbia University*
Languages: *Python (Scikit-learn), R (Shiny, data.table)*   **Applications**: *Regression, SVM, Decision Trees, Dashboard*
- Developed Machine Learning models to find correlations between Natural, and Economic factors and Conflicts in Senegal Link.
- Built a Dashboard to be used by policymakers to take effective decisions to avoid natural resource shortages and conflicts.

How America Flies? - Creating Insightful Visualizations on Airline Performance Data, *Columbia University*
Languages: *R (ggplot2, dplyr), JavaScript (D3, SVG)*   **Applications**: *Data visualizations, Exploratory data analysis*
- Conducted Exploratory data analysis and found insights on Airline On-time performance data Project Link.
- Designed a Visualization tool in JavaScript and D3 to find flight delays between top airports.

OTHER ACHIEVEMENTS

- Finalist at Annual Columbia Data Science Society (CDSS) Hackathon held in September 2019
- Conducted workshops on Social Network Analysis and Data Science in Education