Akash V. Iyer

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PROFESSIONAL SUMMARY

Motivated Data Science Junior at the University of California, Berkeley with strong python and data science project experience who enjoys taking part in Kaggle competitions and aims to implement innovative solutions that drive data-driven business decisions

EDUCATION AND RELEVANT COURSEWORK

Bachelor of Arts Data Science, University of California, Berkeley   EXPECTED GRADUATION: MAY 2025

- Business and Industrial Analytics domain emphasis (GPA 3.436)
- **Relevant Coursework:** Data Structures, Data Science Foundations, Principles and Techniques for Data Science, Structure and Interpretation of Computer Programs, Essential Tools For Data Science, Probability & Statistics, Integral and Differential Calculus, Linear Algebra, Urban Data Analytics

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, Java, Javascript, HTML, CSS, Scheme
Technologies: Pandas, NumPy, Tensorflow, Keras, Tableau, Scikit-Learn, SciPy, Jupyter Notebook, Seaborn, Matplotlib, Git, LaTeX, Deepnote, IntelliJ, VSCode, RStudio, ggplot2, Regular Expressions

PROJECTS

[Asteroid Classification]   JUN 2023 – JUL 2023

- Conducted end-to-end ML project with CI/CD pipelines, modular & organized code, logging, and error handling, deployed on AWS. Classified asteroids based on 8 spectral types with models such as XGBoost, CatBoost, Decision Trees, Random Forest, kNN, and artificial neural networks
- Collected data from NASA's Jet Propulsion Laboratory and Planetary Data System small-body databases, experimented with techniques like SMOTE, tuning class-weights, and ensemble techniques under k fold cross validation to handle class imbalance and improve ROC metric

[Housing Prices in Cook County]   MAR 2023

- Created multiple linear regression models to predict housing prices based on several feature-engineered features over 200,000+ row property dataset from Cook County, IL
- Built pipelines for processing data and optimized RMSE error with validation sets to prevent overfitting and maximize efficiency, as well as reporting relevant findings/insights, earning an A on the project with an RMSE of 260k on the hidden test data

[Meat, Wealth, and Health]   MAR 2022 – MAY 2022

- Collaborated with 6 person team under an experienced mentor to define an original data science problem, aggregating data exploration and analysis process into a slide presentation, presenting and communicating results to 100+ students under the Data Science Society club at Berkeley
- Developed 2D geographical and analytical visualizations with the GeoPandas package and cleaned data with Pandas and Seaborn, creating heatmaps, histograms, scatter plots, and hypothesis tests to investigate relationships between meat consumption, wealth, BMI, and life expectancy, across 190+ countries

LEADERSHIP

Live Oak Emerald Regime Marching Band *Drum major/Section Leader*   APR 2017 – AUG 2021

- Led weekly leadership meetings on productivity, effective communication, and collaboration in addition to organizing and leading sectional/full band rehearsals, helping score our highest score in over a decade
- First point of contact for band-related concerns to 120+ members, mentoring and building relationships with them and helping resolve arising issues, and giving constructive criticism when needed

[ConneXions Tutoring] *Tutor*   OCT 2020 - AUG 2021

- Tutored 3-4 students for 45 minutes to over 1 hour each week assisting in Math, English, and Spanish
- Prepared study materials and multiple week-long lesson plans for students, and collaborated with other tutors to assign students to tutors and organize detailed lesson plans for continuous learning