Abhilasha Tandon

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Summary

Detail-oriented software professional with a background in software and data science. An NYU Computer Science and Mathematics graduate who brings a proven record of collaborating with diverse teams to achieve software project goals. Specialties include: optimizing machine learning models, creating effective and elegant websites, collaborating with a team to achieve software project goals, and documenting code.

Education

New York University | New York
Computer Science and Mathematics | 05/2024

- **Relevant Coursework**: Fundamentals of Machine Learning, Natural Language Processing, Operating Systems, Computer Graphics, Computer Systems Organization.
- **GPA**: 3.6
- **Evaluation of Classifiers for Sentiment Analysis of Movie Reviews**: Collaborated on a research paper assessing sentiment in 50,000 IMDB movie reviews. Compared performance of classifiers (random forest, nearest next neighbor, QDA, Naive Bayes, decision tree, linear SVM) for sentiment analysis. Illustrated best practices for a common NLP technique essential for social media monitoring and brand engagement.
- **Spotify Genre Classifier**: Engineered a genre classification model for 50k Spotify songs using gradient boosting and principal component analysis for dimensionality reduction, attaining a 69.1% accuracy and a 0.962 ROC AUC score. Implemented robust data preprocessing, and applied NLP techniques to improve the model's accuracy by 10%. Compiled a detailed report outlining model development, design decisions, and outcomes.

Experience

Pyxeda, Inc. | Remote
Junior Developer | 07/2022 - 09/2022

- Applied essential and cutting-edge natural language processing techniques, including transformers, word embeddings, and large language models, to enhance machine learning models.
- Utilized Python and TensorFlow as primary tools in optimizing and tuning aforementioned models.
- Collaborated closely with supervisors in regular code reviews, actively participating in discussions to maintain high-quality standards throughout the codebase and to remove software bugs.

Skills

Programming Languages: C++, Python, Java, C, Matlab, GLSL, Javascript

Software Development: Git, Github, Bash, Linux, Jupyter Notebooks, Software Design, Software Development Lifecycle, Project Management

Machine Learning: Python, Tensorflow, PyTorch, Google Colab, SQL, Data Cleaning, Exploratory Data Analysis, Pandas, Numpy, Scikit-Learn

Web Development: Node.js, Javascript, HTML, CSS, React.js, Next.js, Figma, UI Design, UX Design