Ajay Kesarwani

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25.03.1992
Languages: English (fluent C2), German (intermediate B1)

Summary

Master student with 5+ years of experience developing user-friendly software applications and skills in Python, Java, SQL, and machine learning, seeking a working student/internship position to utilize skills and contribute to a company's success.

Education

10/2020 – Present	**Master of Science in Computer Science, University of Passau**

Relative Courses:

- Responsible Machine Learning, Multimedia Database, Computational Linguistic
- Introduction to Deep Learning and Advanced Topics in Data Science

07/2010 – 06/2014	**Bachelors in Information Technology, IIEST, Shibpur**

Relative Courses:

- Artificial Intelligent, Graph Theory, Mathematics
- Image Processing and Pattern Recognition, Database, Data-Structure

Professional Experience

12/2018 – 11/2020	**Lead Software Engineer, HCL Technologies**

Self-Optimizing Network (SON) technology for 5G:

- Upgraded SON to achieve better communication and improved performance between various applications.
- Had worked on different SON sub-modules to add new 5G features through Python programming language.

Cisco Prime Central:

- Had worked on various application modules to improve features and fix bugs with Java and the Spring Framework.

02/2015 – 12/2018	**Software Engineer, Ericsson**

Ericsson Multi Activation:

- Developed several EMA/EDA software packages.
- Implemented provisioning of mobile networks in Java and Dup languages.
- Coordinated with developers to work on client requirements.

Key Projects

05/2021 – 08/2021	**Music Genre Classification, Passau University**

Automatically classified different musical genres from audio files
- Used GTZAN genre classification dataset with 1000 audio files, each lasting 30 seconds.
- Applied Convolutional Neural Network (CNN) with Mel-Frequency Cepstral Coefficients (MFCCs) feature vector
- Grade 1.7

05/2021 -07/2021   **Scrapping the Websites, Passau University**
- Scrapped Liquipedia, Socialblade, and E-sport websites.
- Tracked down Twitter follower connections on Active years, Transfers, and Achievements.
- Grade 3.0

09/2021 - 02/2021   **Adversarial Machine Learning Seminar, Passau University**
- Analyzed various types of attacks on machine learning models and how to overcome them.
- Grade 1.7

11/2021 - 01/2022   **Fake News Detection**
- Used PassiveAggressiveClassifier for detecting fake and real news.
- Utilized a political dataset and implemented it using TfidVectorizer.

01/2022 – 04/2022   **Movie Sentiment Analysis using ML**
- Applied an LSTM multi-layer bidirectional RNN for sentiment analysis.
- Reviewed 50,000 movies on the IMDb dataset and categorized each review as positive or negative.

03/2022 – 05/2022   **Build chatbot using NLTK and Keras**
- Applied LSTM to classify which category the user message belongs to.
- Utilized a JSON file as a dataset that contained the patterns to find the responses for the user.

Technical Skills

Programming	Python, Java, SQL, JavaScript, HTML, CSS
Tools/Libraries	Numpy, Pandas, Keras, Tensorflow, PyTorch, OpenCV, Scikit-Learn
Databases	SQL Server, MySQL, Oracle, and NoSQL
Web Frameworks	Flask, Django
Visualization	Matplotlib, Seaborn, Plotly
Cloud	AWS, GCP
DevOps	Dockers, Kubernetes, Git, Gitlab

Sincerely,

Ajay Kesarwani
Passau
January 10, 2023