

JAI AGRAWAL

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EDUCATION

University of Southern California (United States) <i>Bachelor of Science in Economics and Data Science</i> Undergraduate Coursework: Probability Theory, Applied Differential Equations, Linear Algebra & Applied Statistics <i>Master of Science in Applied Data Science (5-year accelerated degree)</i> Graduate Coursework: Machine Learning in Python, Fundamentals of Data Mining, Applied Natural language Processing, Analysis of Algorithms & Building Knowledge Graphs GPA: 3.6 (Undergraduate) Dean's List: Fall 2021, Spring 2022	Anticipated: May 2024
The American University of Paris (France) <i>Completed first year of undergraduate degree from USC at AUP as a part of USC's Freshman Year in Paris program</i> GPA: 3.91 Dean's List: Fall 2019, Spring 2020	2019-2020
Heritage Xperiential Learning School (India) IB Score: 37, ACT: 34	2010-2019

PROJECTS

Forecasting Stock Values Using an LSTM Model in Python ▪ Developed an LSTM model to forecast time-series data using stock values. Pulled data from NSEPy library, formatted data using PANDAS, and applied machine learning techniques using Keras	2021
Finding the Most Clutch NBA Player of the 2020-21 Season Using Python ▪ Created datasets to evaluate most clutch NBA player of the season. Pulled data from stats-nba.com using a web-crawler in BeautifulSoup. Formatted and analysed said data using PANDAS. Visualised using Matplotlib	2021
Analysing Eminem's Lyrics Using TF-IDF Topic Modelling in Python ▪ Built a TF-IDF model in Python using NLTK library. Pulled data from Genius library, prepared same using NLP concepts deployed by NLTK library, and analysed using Sklearn	2021

INTERNSHIP EXPERIENCE

Software Intern, Vincilium – Distributed Ledger Tech (8 weeks) <i>Vincilium is a DLT-based software development company operating in New Jersey</i> ▪ Built an NLP retrieval-based chatbot in Python, which allowed users to query their data from the PostgreSQL DB. Libraries used: Keras, NLTK, TensorFlow which seek to develop AI which can answer users' data-driven queries ▪ Developed the REST API that allowed for GET and POST requests to be sent on the app	May-July 2022
Intern, Conscient Infrastructure Pvt. Ltd. (India) <i>Conscient is a real-estate developer, primarily operating in Gurugram</i> ▪ Suggested that Conscient improve its backend data storage by replacing its excel-based data with a MySQL-based database management system. Assisted with its further implementation	May-June, 2017

OTHER EXPERIENCE

Teacher's Assistant, Introduction to Data Analytics ▪ Graded problem sets, quizzes and exams for students taking the course. Responsibilities also included answering students' doubts about SQL, NoSQL, Tableau, MongoDB etc. during class	Aug 2022-Present
Technical Assistant, USC IT Services ▪ Assisted in the maintenance and upkeep of audiovisual technology present all over campus, particularly with the new hybrid model (i.e., aiding professors with technical issues on Zoom, etc.)	Aug 2021-May 2022

LEADERSHIP & INVOLVEMENT

Engineering Head, Expat Society (USC) ▪ Managed development of the platform which allowed select members of the club to host events, the others to RSVP and chat within the event group-chat. The final product was a JavaScript-based web-app ▪ Developed pipelines which aided in the collection of the club's dues, done through encrypted links and further paid using Stripe. Cost-efficiency was also noted during the process	Aug 2022 - Present
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TECHNICAL SKILLS

Libraries: Pandas, NumPy, BeautifulSoup, ML using Sklearn, Keras and Tensorflow, & NLP using NLTK (Python)
Modelling: Linear and Logistic Regression, Decision Trees, Random Forests, SVMs, K-Nearest Neighbors, LDA
Languages: Python, MySQL, C++, Stata R, Swift, Spark, Git and HTML