

Navkaran Singh

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I am student of LaSalle College under the program AEC in Artificial Intelligence and Machine Learning, Under my Winter COOP program i am looking for the internship My aim is to get hands on experience in the real world and upskill myself in the best way possible I have a brain that is inclined towards solving solving and i enjoy it very much, i am confident in myself that i shall be a asset to the company and provided i have experience as an intern i shall be adaptive in the environment

EDUCATION

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- **LaSalle College** Montreal, Canada
• *DEC in Machine learning and artificial intelligence* *August 2022 - Present*
Key Courses: Neural Networks and Fuzzy Systems, CNN, SQL database management
 - **Punjab Engineering College (Deemed to be University)** Chandigarh, India
• *Bachelor of Technology - Electronics and Communication Engineering; GPA: 8.1* *August 2017 - July 2021*
Key Courses: Computer Programming Basic, Computer Networks, Information Technology in Engineering, Computer Architecture, Operating Systems, Neural Networks and Fuzzy Systems

SKILLS SUMMARY

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- **Languages:** Python, C++
 - **Frameworks:** Scikit, TensorFlow, Keras, OpenCV, Matplotlib, Sklearn, flask
 - **Tools:** MySQL, LaTeX
 - **Platforms:** Linux, Windows, Arduino, Raspberry
 - **Soft Skills:** Leadership, Project Management, Strong analytical & problem solving skills, Time Management

PROJECTS

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- **Link Shortner (Website)** : Developed a user-friendly Link Shortener website using HTML, CSS, and JavaScript, providing a convenient platform for users to input long URLs and obtain shortened versions. Tech: html,css,js (June '22)
 - **Handwritten Digits Recognition (Machine and Deep Learning)**: Trained CNN model on the MNIST dataset, Developed a tkinter GUI with a canvas for writing digits, Used PIL to capture handwritten digits from the canvas, Leveraged OpenCV to recognize contours, enabling the handling of multiple digits
Tech: Python, Tensorflow, openCV, PIL, tkinter
 - **Sudoku (Data structures + Web Development)** : Built a website where i used the concept of backtracking to run Sudoku, the algorithm is implement via javascript while html,css add the visual element, Selenium is used for web scraping, csv files are used for data storage Tech: Selenium, Python
 - **OpenAQ Web Scraping for Air Pollution Data**: Selenium Python Project focuses on web scraping OpenAQ to collect air pollution data globally. The project is organized into stages, each serving a specific purpose. Tech: HTML, CSS, JavaScript

EXPERIENCE

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- **Data Analyst(Full-time)** July 2021 - July 2022
• *Smart Energy Water*
 - **User Story Creation** : : Proficient in creating user stories and requirements documentation using tools like Jira, ensuring clear communication between stakeholders and development teams.
 - **Process Flowchart Design**:: Experienced in designing and optimizing complex business processes by creating detailed flowcharts using Lucidchart, enhancing operational efficiency and clarity..
 - **Data Visualization with Power BI** : : Skilled in data analysis and visualization using Power BI to transform raw data into actionable insights, enabling data-driven decision-making.
 - **Chatbot Integration**:: Successfully integrated chatbots into the utility ecosystem for various companies, including Nisource, streamlining customer interactions, reducing response times, and enhancing user experiences.
 - **Data Analysis and Reporting** : : Leveraged Power BI to analyze utility data, extract meaningful insights, and generate custom reports for executive decision-makers, enabling data-driven strategies.
 - **Tech used** : Jira, Power BI, Lucidchart

- **Work :** : Analysing user reviews on e-commerce site using Unsupervised learning and NLP.
- **Data Cleaning and Exploratory Data Analysis:** NAs in dataset were dropped ,primary column for NLP was added data was pickled(serializing).
- **WordCloud :** Removed less useful frequent words & vectorized the text data by using Count and TF-IDF vectorizer
- **Topic modelling,Clustering and Classification:** Used LSA & NMF for scaling,GMMs was used to create clusters UMAP for embedding and atlast Naive bayes was used for classification.
- **Working:** Automation scripts via python were integrated with PLC in order to automate working of bending machine controlled through HMI where various drivers were also used.
- **Tech used :** Utilized a range of technologies and libraries, including but not limited to Numpy, Pandas, Matplotlib, Seaborn, Wordcloud, and Scikit-Learn, to effectively analyze and extract insights from the e-commerce user reviews