

ARPIT MITTAL

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EDUCATION

University of Southern California, California, USA

August 2021-May 2023

Master of Science in Computer Science, CGPA - 3.9

Selected Courses : Foundations of Artificial Intelligence, Machine Learning, Deep Learning, Multi-Modal Probabilistic Learning, Applied Natural Language Programming, Advanced Computer Vision, Analysis of Algorithms.

Guru Gobind Singh Indraprastha University, Delhi, India

August 2012-June 2016

Bachelor of Technology in Computer Science Engineering, CGPA - 3.4

Selected Courses : Object Oriented Programming using C++, Data Structures, Java Programming and Website Design, Linux programming, Database Management, Linux programming, E-commerce and ERP, Artificial Intelligence etc.

WORK EXPERIENCE

Nagarro, India

Software Developer, Technology

October 2016-April 2021

- Designed and built end-to-end fully functional **24X7 critical and Robust systems** for **E-commerce Website**, scalable for 9 markets regions in distributed, multi-tiered systems.
- **Led a team of 6 members**. Responsible for **system design architecture**, client interaction, feature enhancement, quality documentation, code reviews and team management in **Agile environment**. Monitor live system metrics, handling alerts, and troubleshoot production issues. Received spot award for leading project to completion with team rewarded as "A-Team".
- Active participation in defining functional architecture defining **SDLC** for project including testing and operations, **source and version control management** using GitHub and defining build process via Jenkins,
- Designed innovative algorithm for current system to **automate synchronization of relational databases** between In-Store and Online Orders slashing manual intervention by 70%. Received "Exceeds Expectation" appreciation from Team Management.
- Developed full-stack system using **Java Spring MVC layers** consisting of JSP, jQuery on front end and, MySQL for database with back-end web services.
- Incorporated Change Requests and Incidents Post Prod articulating technical challenges and solutions ensuring stability of website with around new 8,000 orders weekly.

ACADEMIC PROJECTS

CHIP: Contrastive Hierarchical Image Pretraining

January 2023

- Evaluating the generalized scope of **one-shot image classification** and segmentation tasks **based on the semantic hierarchal understanding** of the **visual** features.

Qualitative Analysis of multi-modal datasets for Neurodegenerative Parkinson disorder.

January 2022

- Comparison of different behavioral features with **Time Series Datasets** and **categorical Datasets** and analyzing optimal **Multimodal Fusion Techniques** over various Machine Learning Models after SMOTE Sampling.

Emotion-Cause Pair Extraction in Customer Reviews

September 2021

(<https://arxiv.org/abs/2112.03984>)

- **Sentiment Analysis** of Customer Reviews to extract Cause Pairs analyzing the dependency between Cause tokens and phrases in reviews and Star ratings using Python, providing an overview of respective positive and negative feedback.

Efficient Way for Tracking Electricity Consumption with Meter Pulse Reader (MPR) Algorithm

March 2016

(<https://www.springerprofessional.de/en/efficient-way-for-tracking-electricity-consumption-with-meter-pu/11960586>)

- Proposed solution for Electricity Bill Management by cutting down manual effort and real-time statistical data with 9.5% more efficiency. Research Work published by Springers (12/2016). Considered by BRPL, India for real-time implementation.

Spam Detection

March 2015

- Implemented Spam Detection using Machine Learning Algorithms like Naïve Bayes, Support Vector Machines and Decision Trees and compared Ham and Spam Accuracies, resulting in SVM and Naïve Bayes being better classifiers by 14%.

SKILLS

- **Programming Languages:** Java, Python, C++, Android, Groovy, JavaScript
- **Operating Systems:** Windows, Linux, Android
- **Database System:** MySQL, Flexible Search, MongoDB
- **Frameworks:** E-Commerce using J2EE, Spring, REST, HTML, CSS, jQuery, AngularJS, WordPress, AWS
- **Technical Skills:** Web Development, Object-Oriented Design, RESTful API, Database Management
- **Other Skills :** GitHub, Jenkins, Code Reviews, Leadership, Team Management

LEADERSHIP & INVOLVEMENT

- **Senator for CS department** in Viterbi Graduate Student Association August 2022 - Present
- **Vice President** in a Student Organization in USC August 2021-Present
- **Technical Lead** for an Ecommerce Project in Nagarro August 2020-April 2021