Harish Pal Chauhan

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Education

NYU Tandon School of Engineering   **Sep. 2021 –**
Master of Science in Computer Engineering; GPA: 3.45   *Brooklyn, NY*

Chandigarh Engineering College   **Aug. 2008 – June. 2012**
Bachelor of Technology in Mechanical Engineering; 80.37%   *Punjab, India*

Academic Projects

ResNet-18 Analysis   **Mar. 2022**

- The project involves analyzing Resnet-18 for all the possible configurations like depth, width, kernel sizes etc. to bring down the number of learnable parameters from 11M to under 5M but also to explore various optimization techniques so that it performs at the same or better level of accuracy on CIFAR-10 dataset.

Data Analysis, Imputation & Prediction   **Feb. 2022**

- The project involves data sanitation, finding missing patterns, employing data imputation techniques viz. Simple Data Imputation(Mean, Median, Most-Frequent), Multivariate Feature Imputation(regression), Nearest Neighbor and Low-Rank Approximation and finally using OLS regression to predict blood pressure on 2013-2014 National Health and Nutrition Examination Survey(NHANES) dataset.

Work Experience

Danske IT & Support Services   **Aug 2018 - Aug 2021**
Senior Software Engineer   *Bengaluru, India*

- Trained and mentored a squad of 8 members as Interim Chapter Lead.
- Collaborated with senior architects to design modern API based solution for existing mainframe applications
- Developed, maintained and optimized Danske Bank's payroll system.
- Developed REST APIs by using Java on Mainframe and JAX-RS framework to expose data of legacy system to modern internal applications.
- Developed various automated solutions such as middle-ware application for Leapwork testing framework, robots for RPA etc. using Python programming language and its libraries.

Infosys Limited   **Jul 2013 - Aug 2018**
Senior Systems Engineer   *Chennai, India*

- Worked on requirement gathering and design of legacy modernization projects involving a web based solution for existing mainframe applications.
- Collaborated with senior members of the team to analyze, refine and implement a new database design.
- Developed core modules for data migration, back-fill, and a service layer catering to existing mainframe applications.
- Worked closely with cross-functional team members to seamlessly integrate new database design with existing mainframe applications without impacting its functionality.
- Developed various processes and tools to ensure data integrity.

Skills Summary

Languages: Python, C++, C, Java, SQL, CSS, HTML, COBOL, PLI
Frameworks/Libraries: Scikit, Pytorch, Django, JAX-RS, Agile at Scale
Database/Tools: GIT, MySQL, SQLite, DB2, Slurm, Jira, Confluence, Service now
Platforms: NYU HPC, Google Colab, AWS Sage Maker