

# Panshul Saraswat

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## EDUCATION

**University of Illinois Urbana-Champaign**  
*Masters in Business Analytics*

**Champaign, IL**  
*Expected Graduation Date: May 2024*

**SRM Institute Of Science And Technology**  
*Bachelor's of Technology in Electronics And Communication Engineering*

**Chennai, India**  
*Graduation Date: May 2021*

## WORK EXPERIENCE

**Discovery Partners Institute**  
*Project Manager*

**Champaign, IL**  
*Jan 2024 - Present*

- Leading a 9 member student team for development of a AI and LLM powered project and grant tracking and research matching tool for DPI Chicago, aimed at optimising grant acquisition and enhancing collaboration between industry and academia.

**Horizon Hobby**  
*Data Analyst*

**Champaign, IL**  
*Sep 2023 - Present*

- Analyzed customer data from Horizon Hobby's retail and consumer customer bases to identify potential market segments.
- Developing targeted marketing strategies for each identified market segment followed by proposing strategic recommendations to propel business growth.

**Capgemini**  
*Software Engineer/ Analyst*

**Bangalore, India**  
*Jul 2021 - Nov 2022*

- Collaborated with cross-functional teams to troubleshoot and resolve complex technical issues related to memory shared systems, Sim driver and I2C, achieving a resolution rate of 95% within agreed-upon SLAs.
- Analyzed and optimized SIM driver, NVM, and I2C to improve performance and stability.
- Utilized user space application programming skills to develop a new feature for the Devlink project which helped increase the productivity of internal teams at INTEL.
- Debugged and resolved issues with UICC driver and NVM using Lauterbach/JTAG debugger, resulting in a 30% decrease in system errors.

*Intern*

**Bangalore, India**  
*Mar 2021 - Jul 2021*

- Learned basics of Linux Kernel and VLSI.
- Collaborated with senior engineers at Capgemini to develop a deeper understanding of VLSI systems and Device drivers

## PROJECT EXPERIENCE

### Cloud-Optimized Data Ecosystem Project Integration

- Implemented scalable MongoDB clusters on the cloud to enhance data storage and management, ensuring secure dataset handling.
- Processed and integrated Yelp data from Kaggle by utilizing Python for efficient JSON to dataframe conversion, enabling detailed Yelp data analysis.
- Connected to Flipside via a Python API to incorporate real-time NFT sales data, facilitating seamless retrieval for comprehensive analysis.
- Linked KNIME Workflow with MongoDB to effectively manipulate and derive valuable insights from restaurant and NFT sales data.

### Statistical Modeling for Property Valuation

- Enhanced dataset compatibility with advanced models through comprehensive data cleaning, addressing missing values, outliers, and inconsistencies.
- Identified key factors influencing house sale prices by selecting relevant variables based on correlation and distribution analysis using statistical methods.
- Developed and compared various regression models (linear, lasso, random forest) to achieve predictions with minimal error for house sale prices.
- Successfully applied the random forest model for accurate prediction of housing sale prices in Cook County, utilizing its precision after training on carefully selected variables.

### ICEEICT 2023

- Presented the research paper entitled "Design and Implementation of Approximate Divider for Error-Resilient Image Processing Applications" at the IEEE-sponsored Second International Conference on Electrical, Electronics, Information and Communication Technologies
- Used Cadence Virtuoso, MODELSIM and MATLAB to design, implement and realise approximate VLSI circuits which were then used for image processing.

## LEADERSHIP EXPERIENCE

**Beeclust-MRSL**  
*Mechanical Lead*

**Chennai, India**  
*Apr 2018 - Feb 2021*

- Beeclust-MRSL is a student-run research team at SRMIST which deals in making multi-robot systems; whereas as a mechanical lead I developed a robot design that found useful to solve warehouse-based problems.
- Managed a team of 3 individuals and coordinated with the team members of other domains at Beeclust-MRSL to successfully design and develop a robot prototype, resulting in increased efficiency in warehouse operations.

## SKILLS

**Languages:** C, MATLAB, Python, SQL, NoSQL, R, SAS.

**Tools/Softwares:** Tableau, Wolfram Mathematica, RStudio, Knime, MySQL, AWS, MongoDB, Azure, Github, GIT, Linux, TeraTerm, Putty,