

# K. Poornima

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*A Data Scientist who is passionate about Data Analysis, Machine Learning, Deep Learning, Natural Language Processing, AutoML, Time Series, Statistics, MySQL, and A Certified graduate member of Boards of Engineer, Malaysia(BEM).*

## CAREER ASPIRATION

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As an aspiring data scientist, I intend to capitalize on my technical and analytical skills in data analysis, machine learning, and statistical modeling to provide valuable insights/ solve complex problems for organizations. I am dedicated to staying up-to-date with the latest industry trends and technologies, and to continuously improve my skills through learning and hands-on experience. I aim to be a trusted advisor to business stakeholders by presenting clear and actionable recommendations based on data-driven insights. I strive to approach each project with a scientific mindset, including identifying hypotheses, gathering and cleaning data, exploring and visualizing data, building and tuning models, and communicating results effectively.

## RECENT WORK

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Participating in a Hackathon hosted by Women In Data Science (WIDS), where we're tackling a significant social issue using an oncology dataset. Actively involved in WIDS workshops to refine skills, brainstorm methods for data preprocessing & visualization and experiment different ML models (**particularly Ensemble Technique**) to optimize AUC scores. Our objective in the hackathon is to develop a predictive model to determine if patients will be diagnosed with metastatic cancer within 90 days of screening.

## EDUCATION

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### Data Scientist Master's Program by IBM in collaboration with Simplilearn

Completed: October 2022

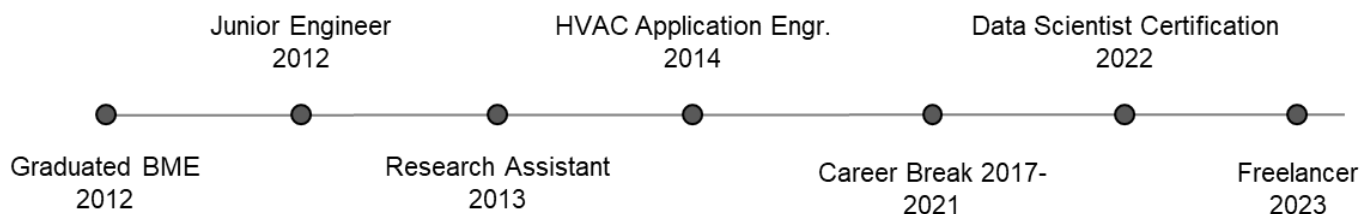
### Bachelor's in Mechanical Engineering (BME) Hons.

Graduated: May 2012, Overall GPA: 3.59

Thesis: Design analysis and optimization of a plastic injection mould cooling system

## TIMELINE

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## PROJECTS

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<b>Github</b>	<i>Slackathon- Payment Fraud Detection</i> <a href="https://github.com/PoornimaKanasen/SLackathon-Payment-Fraud-Detection-Cygnus01">https://github.com/PoornimaKanasen/SLackathon-Payment-Fraud-Detection-Cygnus01</a>
	<i>KPMG Virtual Internship</i> <a href="https://github.com/PoornimaKanasen/KPMG_Virtual_Internship">https://github.com/PoornimaKanasen/KPMG_Virtual_Internship</a>
	<i>Accenture Virtual Internship</i> <a href="https://github.com/PoornimaKanasen/Accenture_Virtual_Internship">https://github.com/PoornimaKanasen/Accenture_Virtual_Internship</a>
	<i>Capstone Project- Predicting whether patients have diabetes or not?</i> <a href="https://github.com/PoornimaKanasen/Capstone_project_DiabetesOrNot">https://github.com/PoornimaKanasen/Capstone_project_DiabetesOrNot</a>
	<i>Data Science Projects (Basic EDA + ML)</i> <a href="https://github.com/PoornimaKanasen/DataScience_Projects-Basic-EDA-and-ML-">https://github.com/PoornimaKanasen/DataScience_Projects-Basic-EDA-and-ML-</a>
	<i>Machine Learning Projects</i> <a href="https://github.com/PoornimaKanasen/MachineLearning_Projects">https://github.com/PoornimaKanasen/MachineLearning_Projects</a>
	<i>Deep Learning- Tensorflow</i> <a href="https://github.com/PoornimaKanasen/DeepLearning">https://github.com/PoornimaKanasen/DeepLearning</a>
	<i>MySQL Project – ScienceQTech Employee Performance Mapping</i> <a href="https://github.com/PoornimaKanasen/MySQL_Project">https://github.com/PoornimaKanasen/MySQL_Project</a>
<b>Tableau</b>	<a href="https://public.tableau.com/app/profile/poornima.kanasen">https://public.tableau.com/app/profile/poornima.kanasen</a>

## TECHNICAL SKILLS

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<b>Programing language(s)</b>	Python
<b>Machine Learning</b>	Statistics, Supervised, Unsupervised, Classifier, Prediction, Trees & Classification, Boosting, Naïve Bayes Classifiers, KNN, Logistic Regression, Linear Regression, Perceptron, Hierarchical Clustering, K-Means Clustering, Neural Networks, Deep Learning, AutoML (Tpot)
<b>Text Mining/NLP</b>	Web Scrapping, Classify Text, Using NLTK, Market Based Analysis, Association Rules, Support Vector Machines, Corpus, Text Analysis
<b>Visualization</b>	Data Exploration in Python, Uni, Bi and Multivariate Viz, Histogram & Pie (Uni), Tree & Tree Map, Scatter plot (Bi), Line Charts (Bi), Tableau
<b>Data Ingestion &amp; Data Munging</b>	Acquiring Data (Data Discovery), Transformation and Enrichment, Principal Component Analysis (Feature Reduction Technique), Feature Extraction, Handling Missing Values, Data Scrubbing, Normalization
<b>Database(s)</b>	MySQL (write and execute SQL queries, join tables, filter and sort data, and aggregate functions)

## INTERNSHIP(S) / CERTIFICATIONS/ DATA SCIENCE HACKATHON(S)

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<b>Virtual Internship(s)</b>	KPMG – Data Analytics Consulting Virtual Internship ( <b>Completed on February 1<sup>st</sup>, 2023</b> ) Accenture – Data Analytics and Visualization ( <b>Completed on February 28<sup>th</sup>, 2023</b> )
<b>Certifications</b>	Python for Data Science, Data Science with Python, Machine Learning, Tableau Training, Data Science Capstone, MySQL Training, Deep Learning with TensorFlow and Keras ( <b>Completed in 2022 (May – November)</b> )
<b>Data Science Hackathon (s)</b>	SLackhaton (Organized by Simplilearn), selected as one of the final 5 submissions, Topic: Payment Fraud Detection ( <b>Presented : December 2022</b> )

## PREVIOUS WORK EXPERIENCE

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### Data Scientist

Freelance, **January 2023 – till present**

#### Projects:

**1. Employ ML to assess the eligibility of loan applicants.**

*Overview: A financial organization intends to use machine learning to assess the credit worthiness of an applicant by implementing a model that will predict if the potential borrower will default on his/her loan or not.*

*Scope: Business Understanding, Data Understanding, Data Preparation, Modeling and Evaluation.*

**2. Addressing a supply chain issue for a client.**

*Overview: To avoid overstocking which leads to wastage of highly perishable items. By analyzing the given data, frequencies of items sold on which date and time were recorded.*

*Scope: Business Understanding, Data Understanding, Data Preparation and Visualization.*

### Applications Engineer

AHR Global Trading L.L.C [a division of Best Pro Trading] (Dubai, UAE), **Jan 2014 – August 2016**

AHR Global is an HVAC trading company which deals with Chillers, Packaged Units, Airside equipment (Air Handling Units and Fan Coil Units). It is one of the distributors of Dunham-Bush in UAE.

Project(s): EPC CPF Phase 2 Gazprom Project @ Badra Oilfield and others.

- Analyzed 50+ technical drawings and recommended the most practical HVAC selection for each project.
- Conducted research on 5+ competing brands and their product features, resulting better pricing.
- Developed a comprehensive database of 30+ HVAC equipment in terms of pricing and technical details, resulting in increased efficiency in identifying the right equipment for each project.
- Ensured compliance with project specifications, resulting in a 100% acceptance rate of deliverables by clients.

### Research Assistant

Universiti Tenaga Nasional (UNITEN – Malaysia), **Jan 2013 – Dec 2013**

- Developed and published a comprehensive research report on the latest trends and best practices in plastic injection molding, which received positive feedback from industry experts and peers.
- Collaborated with the lecturer to identify and compile a list of 50+ potential research subjects that aligned with the study objectives.
- Successfully supervised and facilitated a team of 5 undergraduate students in Autodesk Moldflow software who worked on the research project, ensuring that they met all project milestones and

deadlines.

### **Junior Engineer**

Mattel Development & Tooling (MDT- Malaysia), **June 2012 - Dec 2012**

MDT serves as an exclusive development center and a tool manufacturer by employing advance technology in developing tooling aids for fabricating Plastic Moulds and Die Cast Dies for 1/64 Scale Cars.

- Identified defects and modified plastic parts for assembly
- Assisted on 3D scanning of a model in order to convert it into STL format for turn over package which does not have the particular e-file to work with.
- Handled failure mode and effect analysis (FMEA) on model cars.
- Monitored performance tests such as rolling straightness, floating barbell, rolling speed and distance, drop test, pull test (10 lb & till it fails) and crush test.

### **PUBLICATIONS**

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#### **Conference papers:**

- Design analysis on multi-cavity plastic injection moulding -*National Graduate Conference (NatGrad)2012.*
- Optimization of Injection Moulding Process Parameters Using Autodesk Moldflow Insight- *International Conference on Advancement in Polymeric Materials APM-2013 (CIPET, India).*

#### **Journal:**

- Cooling Channel Design for Multi-Cavity Plastic Injection Moulds- *International Journal of Science and Research (IJSR) Volume 2 Issue 5 2013, India (Online ISSN: 2319-7064).*

### **OTHER DETAILS**

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**Languages known** : English, Bahasa Melayu and Tamil  
**Nationality** : Malaysian  
**Current Location** : Abu Dhabi, UAE.  
**Visa Status** : Dependent Visa