Shashidhar

# Machine Learning Engineer

A MACHINE LEARNING ENGINEER WITH A PASSION FOR ENGINEERING AND SOLVING REAL-WORLD PROBLEMS WITH EXPERIENCE IN MANUFACTURING, AUTOMATION AND MARKETING. POSSES EXCELLENT KNOWLEDGE IN ANALYSIS, CLASSIFICATION, REGRESSION AND VISUALIZING TECHNIQUES.



# Experience

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| **Jan 2019 -**  **Current** | **Data Science Fellow**  *Launchpad.Ai*   * Developed a healthcare application that can classify wound categories from public data. * Employed Pytorch models while leveraging FastAI to improve model performance. * Analyzing text and image data to gain insights into trends and patterns in data. |
| **Oct 2018 -**  **Current** | **Machine Learning Engineer Trainee**  *AppliedAICourse, India*   * Performed ETL, Data cleaning and pre-processing, dimensionality reduction, visualization as well as feature engineering for improved model performance. * Solved ML and deep learning problems using Tensorflow and Keras. Proficient in building CNN, LSTMs and DL models. * Worked on real predictive problems using classification and regression techniques such as Naïve Bayes, Logistic regression as well as stacked and cascaded classifiers. * Worked extensively on NLP problems for sentiment analysis using classification and regression techniques such as Random Forests, GBDT, Logistic Regression, SVMs and k- Nearest Neighbor * Gained extensive knowledge in Python libraries such as Scikit-learn, Pandas, Numpy, MatPlotLib, Keras and XGBoost as well as recommender systems * Gained a working knowledge of DBMSs such as SQL * Proficiency in statistics, probability, data visualization methods(Tableau, MiniTab) and VBA * Knowledge in using GPU programming models like CUDA as well as using cloud computing services such as AWS and GCP |

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| **Jun 2018 –**  **Apr 2019** | **Business Development Associate**  *Byjus Learning Application (T&L Pvt. Ltd), Visakhapatnam, India*   * Analyzed and predicted sales trends successfully in the region * Generated marketing models and strategies to generate most revenue per investment |



* Built brand awareness and improving enrollments in new territories
* Led a team to achieve sales and conduction targets
* Trained and motivated members of sales and marketing team

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| **Jun 2017 -**  **Dec 2017** | **Junior Manufacturing Engineer**  *Mobile Land Systems FZ, RAK, UAE*   * Spearheaded process optimization and reduced lead time by upto 30% per line. * Daily production control activities and implementing Industrial Engineering methodologies like time studies and VSM * Worked on collection, analysis and visualization of manufacturing data * Creating STS sheets and pillar charts to balance the manufacturing line and optimize work flow * Assist in the implementation for ERP and PLM by generating routing and BOM documents for manufacturing * Implementing material management, Kanban, 5S and Lean * Assisting in Jig and fixture design and DFM for production * Production and manufacturing data analysis and compilation |

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| **Jun 2012 –**  **Jul 2012** | **Service Engineer Intern**  *Ocean Kings Survey Service LLC, Sharjah, UAE*   * Involved in day to day operations of the company which involved organizing data, assisting in service & maintenance of survey equipment, managing customer relationship and working as a part of the team |

# Education

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| **Sep 2015 -**  **Dec 2016** | **Master of Science: Advanced Manufacturing Technology & Systems Management**  *University of Manchester - United Kingdom*   * Graduated with Merit certification * Modules include Advanced Manufacturing Processes, CIM, Robotics, Micro and Nano fabrication, Reverse Engineering, Lean Manufacturing & Applications, 3D modelling * Project on "Tool skidding while drilling in Aerospace materials" done in collaboration with   Airbus |

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| **Sep 2011 -**  **May 2015** | **Bachelor of Engineering: Mechatronics Engineering**  *Manipal University*   * Graduated with CGPA of 8.02 * Modules include PLC and microprocessors, control systems, Strength of materials, Material Science, Hydraulics and Pneumatics, Signal Processing, MEMS, Computer Integrated Manufacturing * Designed and manufactured a single seater all-terrain vehicle as part of the final project * Member of the Society of Automotive Engineers and IEEE |

**Projects**

**Machine Learning Projects and case studies : https://github.com/shashi9323**



1. **Mercedes-Benz Greener Manufacturing:** Designed a stacked regression model to predict the duration of time that a vehicle on the manufacturing line would spend in quality control based on the specification of the car.
2. **Kaggle: Severstal Steel Defect Detection:** Designed a multi-step classification CNN model using architectures for computer vision such as DenseNet, VGG and U-Net to successfully identify images of steel products and classify them based on defects present, if any.
3. **Kaggle: MPST: Movie Plot Synopses with Tags:** Worked with several ML and ANN models to successfully solve the multi label classification problem to predict and identify tags based on synopsis given.
4. **Amazon Fine Foods Review Sentiment Analysis:** Analyzed and cleaned a data set with over 500000 reviews to perform sentiment analysis using a wide range of classification, NLP and Deep NN techniques.
5. **Personalized Cancer Diagnosis and classification:** Classifying and diagnosing if a patient shows traits of cancer based on gene and variation data provided.
6. **Modeling Earthquake Damage:** Predicting the damage grade of the affected building post the earthquake in Nepal. Data provided included features such as age, number of floors, occupancy rate etc. of the building.

# Accomplishments

* Developed and improved on data models with higher accuracy and performance than published papers.
* Analyzed data and improved production line work flow by reducing lead time per line by 30%.
* Won the 'Best Project' award from the university for the Design and Manufacture of a SAE all-terrain vehicle.
* Received a scholarship for achieving a GPA of 9.0 in the 7th & 8th semester at Manipal University
* Successfully led and organized various university events for 3 consecutive years and received appreciation awards for the same
* Regional finalist of the Infiniti Engineering Academy-Middle East.

# Certifications

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| **Oct 2018** | Applied Machine Learning and AI Certification |AppliedAICourse|2018 |

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| **Jan 2017** | TUV Rheinland Certification in Automation Engineering | Siemens S7, Allen Bradley, Delta  Electronics, HMI programming, MCC, VFD| SMEC Automation |

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| **Mar 2017** | Lean Six Sigma Green Belt | KPMG | March 2017 |

**Additional Information**

* Possess a UAE and Indian Driving License
* Fluent in English, Hindi and Telugu
* Personal Contact : [shashidhar-396475@2freemail.com](mailto:shashidhar-396475@2freemail.com)
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