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.
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| **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
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* 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
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# 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
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**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, DeltaElectronics, 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
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