Manish Agrawal

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EDUCATION

- **SES's R.C. Patel Inst. Of Technology** Shirpur, India
  Engineering in Mechanical; *June 2016 - June 2019*
  Courses:, Thermal Engineering, Artificial Intelligence, Machine Learning, Probability and Statistics ,Deep Learning.

SKILLS SUMMARY

- **Languages** : Python, MySQL, C, HTML, CSS, MATLAB, Embedded C, Arduino
- **Tools** : PyTorch, TensorFlow, Git, Numpy, Pandas, Matplotlib, Solid Modeling, MATLAB, Octate.
- **Technical Skills**: CATIA Modeling, Data Modeling & Exploration, Image Processing, Natural Language Processing.
- **Interest** : Statistics, Computer Vision, Stock Market (Equities), Automobiles.

PROJECTS

- **E-Differential** Shirpur, India
  Team Head *Mar 2018 - May 2019*
  - Worked with Arduino PLC and At Mega328P MCU to design and fabricate an E (for Electronic or Energetic) Differential. It was proposed by having an intension to replace M-Differential in current use to Electronic version of it.
  - Were able to build a scaled prototype of the proposed concept.
- **Design and Development of Accident Prevention System** Shirpur, India
  Team Head *Sept 2017 - May 2019*
  - Worked with Arduino PLC and At Mega328P MCU, RFID, Zig-bee to develop an Intelligent Accident Prevention System(IAPS). Planned to use Data Science for enhancing it's usability and feature extractionary capacities.
  - Were able to build a scaled-down prototype of the proposed model.
- **SAE Mahindra BAJA 2018** Shirpur, India
  Team Member, Steering Department. *Jan 2017 - Jan 2018*
  - Worked with CATIA, ANSYS, MS-Project Management Tool to design and fabricate an ATV(All-Terrain
  - Vehicle) through our collegiate SAE club.

EXPERIENCE

- **Titanic - ML from Disaster**: It is a **Kaggle** competition, wherein Survival rate was regressed for titanic ship datasets. I got 78.7817 % percentage correct prediction based on my model.
- **The Apriori Mall Association**: It followed the **Customer Basket Analysis**, where the closest and most relevant association of simultaneously purchased items was done along with their strong visual representation.

  Vehicle's OBD Data Modeling & Analysis: It was **Real-World Study** where hugely complex sensor data with **200 variables** were modeled and analyzed by forming the **dashboard** with the purpose of optimizing the engine performance

CERTIFICATIONS

- Deep Learning A-Z from Udemy by Kirill Eremenko and Hadelin de Ponteves
- Machine Learning A-Z with Python from Udemy by Kirill Eremenko and Hadelin de Ponteves

HONORS AND AWARDS

- Ranked among top 100 teams for KPIT Sparkle 2018.
- Finalist in KBC NMU Aavishkar 2019 at University Level.
- 21st AIR in SAE Mahindra BAJA 2018.
- 4th and 6th Rank in Transform Maharashtra 2017 in Judges Criteria and People Choice (**EGIT Solution**)