

Ankit Gupta

Product Design Engineer

PROFESSIONAL EXPERIENCE

Product Design Engineer

Jul '16 - Present

Mercedes Benz Research and Development India

Bengaluru, IN

Complete responsibility to Lead , Design, Development and Validation of Tire Envelops (clearing space for tires) and Tire-Wheel Positioning during concept stage in Vehicle development considering all maneuvering conditions and impacts vehicle exterior design.

Data Analysis & Data Mining

- Applied GLM model to define elastic movements of wheel hub to optimize the space required by tires during vehicle maneuvers. Prepared initial Proof of Concept for the project , Feature Engineering, Data Analysis and Data Modeling and Result evaluations and Reporting. New design methodology improves process reliability, reduce complexity and decrease design time by 10%.
- Applied GLM regression model to define maximum suspension travel and new definition for Suspension Travel for vehicle packaging team based on results of Suspension Test rig. It includes Feature Engineering , Data Analysis and modeling and Result evaluations and Reporting.
- Applied NLP(Natural Language Processing) , logistic regression and Random Forest classifier technique to classify errors occurring in product development cycle based on remarks/reviews of quality team to improve efficiency of design team.
- Performed Data Analysis on wheel bearing dataset (Benchmarking activity) and proposed areas of improvement in design (weight reduction up to 5%) , ease of assembly measures. Based on business requirements , Feature Engineering , Data Analysis and Reporting

Project Management

- Create an independent support for German client in Tire Envelops by mentoring a recruit while managing & maintaining ongoing projects.

EDUCATION

Post Graduate Diploma in Machine Learning and Artificial Intelligence

May '20 - May '21

International Institute of Information Technology, Bangalore

M.Tech in Manufacturing Technology

Jun '14 - Jun '16

National Institute of Technology , Trichy

B.E. in Mechanical Engineering

Jul '09 - Jul '13

Medicaps Institute of Technology and Management , Indore

KEY PROJECTS

Domain: Retail , Telecom , Image Classification | Tech Stack: Python, GitHub

- https://github.com/hcankit/recommendation_system
- https://github.com/hcankit/telecom_case_study
- <https://github.com/hcankit/multiclass-classification-model-using-a-CNN-in-tensorflow>

CONTACT

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🔗 <https://github.com/hcankit>

SUMMARY

Currently working as Product Design Engineer with 5 years of experience in Automotive Chassis Domain. 2 years experienced data analytics possessing a track record of driving user growth. Adept at performing deep dive to gain actionable insights to benefit key stakeholders & facilitate sound decision-making . Proficient in data visualization and Data Modeling to deliver compelling business value to clients & successfully execute projects.

KEY SKILLS

- Data Analysis • Data Visualization
- EDA • Statistical Modeling
- Machine Learning Techniques
- Version Control System
- Stakeholder Management
- Process Improvement
- Leadership & Training

TECHNICAL SKILLS

Tools/Languages: Python, Tableau , SQL, GitHub ,Hadoop, MS Excel

Database: MySQL

Packages : Matplotlib , Seaborn , Scikit-learn , Statsmodels , Tensorflow , NLTK , Keras

LANGUAGES

- English - Fluent
- German - Intermediate