SIDDHARTH GUPTA

PROFESSIONAL SUMMARY

Innovative, forward-thinking, and embracing an abundance mindset, I bring over 10 years of experience in Instructional Design, Industrial Design, Machine Learning, and Data Science. My background includes:

•Creating 2D to 3D Marketing renders, Visualization proposals, animations, visual graphics, and web-based training materials, with expertise in tools like Blender, Keyshot, Adobe Suite, Articulate Storyline, and Unreal Engine.

•Predictive modeling, data processing, data mining, Synthetic Data generation, proficient in Python, AWS, TensorFlow, Keras, and various machine learning algorithms.

SKILLS

RELEVANT SKILLS:	GOOD	EXCELLENT
COMMUNICATION		Yes
WEB BASED TRAINIGS		Yes
ANIMATIONS		Yes
GAMING TOOLS		Yes
3D TOOLS		Yes
GATHERING AND INTERPRETING DATA	Yes	
AI TOOLS	Yes	
PYTHON	Yes	
ADOBE CREATIVE SUITE	Yes	
VRED	Yes	
ML/AI	Yes	

CERTIFICATIONS

- Management Certificate from Symbiosis
- Powerup power apps program from Microsoft
- Design Principles (Lynda)
- Tractor License
- Yellow Belt(DMAIC)
- M. Tech in Data Science Course from BITS Pilani
- ML & AI Foundations (Lynda)
- Unreal Engine (Lynda)
- Adobe After Effects (Lynda)
- LSTQB QA (Lynda)

CONTACT INFORMATION

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PROJECT ACHIEVEMENTS

Instructional Design & E-Learning Development:
- **WBTs & Video Tutorials:** Led development of 28+ WBTs and 7 tutorials using Storyline 360, Unreal Engine, incorporating 2D, 3D, 360 VR animations. Team was Globally recognized for enabling shift in engagement capability under my supervision.
- **AI Multilingual Audio:** Integrated and implemented existing AI tools to convert text to audio in 10 languages, within an hour (45x faster to deploy).
- **Interactive HTML-XR Documentation**: Created POCS for interactive brochures with videos and 3D models, boosting user engagement. Leading to the creation of new capability and team.

Digital Tool & Platform Development:
- **Electric Bike Design & Configurator:** Directed design and simulation, developed interactive 3D configurator using 3DExperience tools.
- **Tractor Configurator:** Developed HTML interactive configurator with Storyline 360 and Keyshot Web, enabling virtual product customization engagement for the customers.
- **Digital Asset Management (DAM) Tool:** Deployed Enterprise DAM tool which was backed by the organization, improving cross-team data sharing and integration.

Automation & AI Integration:
- **Virtual Glare Study (Digital Twin):** Automated glare analysis using Unreal Engine, generating 960 images in 5 minutes.(500x faster)
- **3D Asset Automation:** Developed automations for rapid 3D asset migration, resulting in significant time and cost savings.
- **Map to 3D Conversion:** Transformed customer tractor sensor data into 3D using Unreal Engine for enhanced visualization, integrated with Cesium for realistic location view.

Advanced Analytics & Machine Learning:
- **AI for Retopology:** Utilized AI techniques for rapid mesh optimization, reducing preparation time for gaming engines.
- **Image Recognition Platform:** Built a CVML Streamlit app hosted on AWS to recognize parts from images, reducing time by 90%.
  >Automation for synthetic realistic images using>windchill>keyshot>image augmentation.
- **DTAC Case Routing:** Developed a machine learning platform to streamline case routing, improving operational efficiency.

Project Management & Operational Efficiency:
- **Advanced Project Tracking Sheets:** Designed sheets using PowerApps, enhancing task allocation and resource management akin to Jira. Providing automation and BI capabilities.

PROFESSIONAL EXPERIENCE

Lead Visual Graphic Specialist | John Deere Pvt. Ltd., Pune | Oct 2019 – Present
- Project management for planning, testing and deploying new tools to improve work efficiency in the Graphic domain (POC)
- Digital Twin creation for virtual studies like glare, vibration, sound etc.
- Web based Trainings: Interactive training creation for internal and external trainings 2D, 3D, 360, VR. Using tools like articulate 360 and unreal engine.
- Web Configurator for product pamphlets with interactivity.
- Animations for training and marketing content, with expertise in rigging, motion graphics, photogrammetry, lightning.
- End to End Design conceptualization.
- Automations for Data management and faster project delivery.

QA Automation Tester | Dassault Systems, Pune | Jul 2014 – Sep 2019
- Developed and executed automation test scripts for VR software and Catia products.
- Reduced testing hours significantly through optimized scripts in Python.
- Led the design and creation of a convertible electric bike using 3DExperience platform.

TECHNICAL SKILLS

Animation and Design
- Tools: Blender, Keyshot, Maya, 3ds Max, After Effects, Toon Boom, Photoshop, Illustrator
- Skills: 3D Modelling, Rigging, Motion Graphics, Storyboarding, Character Design, Video Editing

Machine Learning and Data Science
- Languages/Tools: Python, TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Seaborn, Matplotlib
- Algorithms: Linear Regression, Logistic Regression, SVM, Random Forest, CNN, RNN
- Text Processing: NLTK, TF-IDF, Word2Vec, Bag of Words.

Technical Tools
- Environments: Jupyter Notebook, SQL, Flask, GitHub, Docker, Grid Computing.
- Cloud Platforms: Azure OpenAI, AWS (EC2, SageMaker, S3), Databricks, Apache PySpark
- Automation Testing: SikuliX, Selenium

EDUCATION

- M. Tech in Machine Learning | BITS Pilani | 2022 | First Class
- B. Tech in Mechanical Engineering | Symbiosis Institute of Technology, Pune | 2014 | First Class

HOBBIES

- Animations, Hiking, Travelling, AI, Computers and tech, Cooking, Gardening, Gym, Introvert trying to socialize.

CERTIFICATIONS LEARNINGS

Management Diploma from Symbiosis: Learning: Strategic decision-making, leadership, and organizational management skills, enhancing the ability to drive business operations and team productivity effectively.

Powerup Power Apps program from Microsoft: Learning: Expertise in developing custom business applications, automating workflows, and enhancing business efficiency through tailored solutions.

Design Principles (Lynda): Learning: Understanding of fundamental design concepts that improve user experience and interface design, directly impacting customer satisfaction and engagement.

Tractor License: Learning: Practical knowledge of operational standards and safety protocols, essential for managing and optimizing field or industrial operations.

Yellow Belt (DMAIC): Learning: Proficiency in the basic principles of Six Sigma, focusing on improving process quality, reducing errors, and increasing cost efficiency in projects.

M. Tech in Data Science from BITS Pilani: Learning: Advanced analytical skills and expertise in modelling complex data scenarios to drive insights and inform strategic business decisions. Learnt: Statistical analytics, DSA, ML Algorithms, Neural Networks, Flask, GCP, AWS, Cloud Computing.

ML & AI Foundations (Lynda): Learning: Foundational understanding of machine learning and artificial intelligence applications, contributing to innovative solutions and competitive advantage in technology-driven markets.

Unreal Engine (Lynda):
Learning: Skills in utilizing a powerful tool for real-time 3D creation, opening avenues for immersive product visualization and interactive digital experiences.

Adobe After Effects (Lynda):
Learning: Advanced competencies in motion graphics and visual effects, enhancing marketing and promotional materials to engage audiences more effectively.

LSTQB QA (Lynda):
Learning: Mastery of software testing principles and quality assurance, ensuring product reliability and alignment with user needs and business goals.