Akshat Surolia

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PROFESSIONAL SUMMARY

A Data Scientist with 2 years of experience who takes pride in building models that translate data points into business. Specialized in Python, Proficiency in the domain of Computer Vision and Natural Language Processing and Recommendation System.

SKILLS

Languages	Python	C++	Java	SQL	HTML5/CSS	JavaScript
Frameworks and Libraries	PyTorch	TensorFlow	OpenCV	NLTK	GIT	React
	FastAPI	Flask	Dialogflow	MongoDB	Firebase	SciPy
	Numpy	Pandas	Matplotlib	Scikit-Learn	Transformers	
Cloud Stacks	GCP	AWS	IBM	Heroku	Digital Ocean	Netlify

EXPERIENCE

Associate Data Scientist
DSMATICS | Pune, India

Aug 2021 - Current

- Building DL models and pipelines for use cases across facets spanning e-commerce, consumer data, markets, education, medical, industrial manufacturing and more.
- Scrutinizing existing Machine Learning (ML) models to identify key areas of modifications and deliver optimal solutions.
- Developing and implementing Machine learning operations (MLOps) framework to streamline the process of model development, deployment, and optimization.
- Creating synthetic datasets as part of developing models and slashing data acquisition costs by 95%.
- Consulting Companies for AI integration to meet their needs and resolve problems by recommending data-driven solutions.
- Training cooperate employees in the domain of data science to meet the current market needs.

   Key Projects
- Diverse Facial Edit and latent space manipulation, creating millions of faces with highly customisable facial features.
- Recommendation Engine for dating app using user embeddings and personality evaluation with automatic question generation and zero shot personality classification.
- Real-Time Call Transcription with dynamic call flow, speech synthesis and sentimental analysis.

Computer Vision Engineer
Necesario Innovations | IIT Gandhinagar, India

Jan 2021 - Jul 2021

- Lead Programmer and Technical Head of the product 'Snapper'.
- Implemented real-time HDR on Jetson Nano and applied Contrast Enhancement.
- Developed and Optimized models for 3D model Reconstruction, 3D Photography, Super Resolution,

and Image Enhancement by applying 8-Bit Quantization, and using EfficientNetV2 feature maps to increase the model efficiency by 40% and making the inference 5 times faster.

Deep Learning Engineer
Technocolabs | Indore, India

Oct 2020 - Nov 2020

- Led the team of 11 members to develop a complete chat-bot with Dialogflow as a web extension to serve tech and programming queries with concise answers up to 100 words and articles cards.
- Supervised the team, designed the pipeline and developed a webhook to construct a query-based extractive summarization probabilistic model, achieving 94.2% accuracy.

Research Project in collaboration with IIT Bombay
Gujarat University | Ahmedabad, India

Jan 2020 - Jun 2020

- Engineered a handwritten text recognition system to digitize prescription images achieving 74% accuracy on the test set.
- Redesigned the model architecture with CNN, BiRNN, and Seq2Seq with python and TensorFlow, Image processing, and segmentation by OpenCV.

PUBLICATIONS

A. Surolia, "**Ooze - Handwritten Text Generator**", GLS KALPA, vol. 1, no. 4, pp. 35—49, Dec. 2021.

AWARDS AND ACHIEVEMENTS

- Keynote Speaker for the topic "Data Science In India" at GLS University.
- Mentor at Script Winter of Code (SWOC) 2021.
- Awarded Best Student of Batch by GLS University.
- Attained 1st position in Smart Gujarat Hackathon in Health and Family Welfare Department.
- Won Relay Programming (Java), in a National Level Tech-Fest event.
- Secured 1st position in Extempore, in a National Level Tech-Fest event.

EDUCATION

M.Sc. in Artificial Intelligence & Machine Learning
Department of Computer Science, Gujarat University, Ahmedabad, India

June 2021
8.3 CGPA

Bachelors in Computer Applications
Faculty of Computer Applications and Information Technology, GLS University, Ahmedabad, India

May 2019
9.07 CGPA

Higher Secondary Certificate – 12th
St. Joseph's Convent Sr. Sec. School, Ratlam, India

May 2016
9.4 CGPA

CERTIFICATIONS

- Generative Adversarial Networks (GANs) Specialization   deeplearning.ai
- Data Engineering with Google Cloud Specialization   Google Cloud
- TensorFlow Developer Specialization   deeplearning.ai
- Deep Learning Specialization   deeplearning.ai
- Machine Learning   Stanford University