AMRUTA PURANDARE

SUMMARY

- Hands on experience building practical AI / ML applications since 2002

- Applying Machine Learning, Deep Learning models on Multimedia datasets containing Audio, Video, Image, Text, Dialogs

- Build products & services that showcase creative ideas and latest technology trends

- Leadership Roles: Sr Manager at Cognizant, Associate Director at Happiest Minds, Principal Data Scientist at Make My Trip

- Experience working globally in US, Japan, Singapore with global multinational brands like ESPN, Warner Music, Sony, Amazon

- Key Areas: Computer Vision, Deep Learning, Image Recognition, Creative Technology

ACADEMICS

Masters in Computer Science
University of Minnesota, USA

Bachelors in Computer Engineering
Best Outgoing Student Award
Pune University, India

Research Paper in Humor Analysis in FRIENDS dialogs .. presented at EMNLP 2006 in Sydney

Software Intern at Amazon.com Headquarters in Seattle, WA

Research Intern at Sony, Japan R&D Team based in Tokyo

Visiting Researcher at Singapore Management University (SMU)

Research Intern at University of Southern California (USC)

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JOB FUNCTIONS

- Mentoring & guiding junior team members, to resolve any issues or challenges faced during development and deployment

- Preparing & presenting project proposals by outlining the scope of work, project timeline, budget, team structure and technology stack

- Design Solution Architecture by researching latest coding platforms, tools & libraries to solve given use-cases efficiently & accurately

- Work closely with business development, sales, marketing teams to ensure projects are aligned with overall corporate strategy

SKILLS

Software Libraries	ML Models
- Amazon Web Services (AWS)	- Convolutional Neural Nets (CNNs)
- TensorFlow │ Keras │ Scikit-Learn	- Transfer Learning
- Python │ OpenCV │ REST APIs	- Sequential Models (LSTM, RNN)
- Jupyter Notebook │ Google Colab	- Auto-Encoders
- Tableau │ Kibana │ Elastic Search	- Large Language Models (LLMs)
- ChatGPT │ Meta AI │ Gemini	- Generative AI │ GANs

PROJECTS

- **Media-Pipe:** ML models to recognize facial expressions, hand gestures, yoga poses & sports activities by extracting key landmark points of human body using Media Pipe's Face Mesh & Pose models

- **Computational Music:** LSTM model trained on MIDI sequences to generate music

- **Audio Classification:** ML model to detect music instruments by extracting audio features (spectral coefficients)

- **Transfer Learning:** Generic transfer learning based image recognition model which can be applied to variety of datasets, to solve multiple use-cases (face recognition, OCR, landmark detection, image classification, object recognition) without changing a single line of code