JASHANK DESAI

technologies.perceptrontech@gmail.com
+91 89800 05254
LinkedIn Profile

Visionary Leader & Tech Innovator

As a forward-thinking entrepreneur, I drive my company with a passion for leveraging cutting-edge technology to solve real-world challenges. By fostering innovation and building agile strategies, I guide my team to create impactful AI solutions, streamline VAPT processes with automation, and empower businesses with transformative tech consultancy. My leadership style emphasizes collaboration, continuous learning, and adaptability, ensuring we remain at the forefront of technological advancements while delivering exceptional value to our clients.

Professional Experience

CEO & Founder

Perceptron
Technologies Pvt
Ltd.

03 October 2024

Key Activities of the Company

1. **AI Solutions Development**: Providing tailored AI-driven products and services to solve business challenges.
2. **VAPT Automation**: Researching and implementing machine learning techniques to automate Vulnerability Assessment and Penetration Testing processes.
3. **Tech Consultancy**: Offering strategic consultancy to help businesses adopt and optimize advanced technologies.
4. **Innovative Projects**: Continuously exploring new avenues in automation, security, and AI-powered tools to stay ahead in the tech landscape.

Associate Analyst
CloudLabs Inc.
26th September 2022 – 31st May 2024

- Worked as Test Automation Engineer in Worksoft Certify from 1st August 2023 – 31st May 2024.
- Worked as Technical Recruiter from March 2023 – Till July 2023.
- Worked as Test Automation Engineer in TOSCA from September 2022 – March 2023.

- Having a basic knowledge of SAP Modules.
- Having a knowledge of SAP life cycle, testing cycle, regression suites, types of testing, etc.

Research Experience

Space Application Center (SAC), ISRO, Ahmedabad
Research Intern
16th February 2024 – 30th June 2024

- **Project:** Estimating Point Target Function for SAR Images using Diffusion Denoising Probabilistic Model and U-net.

- Developed a model to estimate point target functions in SAR images, enhancing image resolution and accuracy.
- Conducted extensive research and data analysis, resulting in significant improvements in image denoising techniques.

Projects

Predicting Used Car Prices

- Built a predictive model using regression algorithms to estimate car prices based on various features.
- Utilized data preprocessing, feature engineering, and model evaluation techniques.

House Price Prediction

- Developed a model to predict house prices using machine learning techniques.
- Implemented various algorithms and performed data visualization to interpret results.

Stock Price Prediction

- Designed a time-series forecasting model to predict stock prices.
- Employed advanced machine learning algorithms and analyzed financial data.

Diabetes Prediction

- Created a predictive model to identify the likelihood of diabetes in patients.
- Used classification algorithms and validated the model with real-world data.

Publications

- **POINT TARGET ESTIMATION USING CONDITIONAL DIFFUSIONS**
- **Abstract:** Point target analysis is an important tool to analyze the qual- ity of SAR images. Accurate estimation of the Point Target Function (PTF) in SAR images is essential for this precise analysis and interpretation. This paper presents a novel approach for estimating the PTF in SAR images by utilizing a Diffusion Denoising Prob- abilistic Model (DDPM) to synthesize the PTF. These find- ings highlight the potential of advanced AI-driven techniques in estimating PTF which can be further be used for measur- ing quality of SAR images, paving the way for more precise quality feedback and hence better product for remote sensing.
- **Target Journal:** IEEE [IGARSS]

Awards & Honors

- **Gold Medalist, M.Sc. in Artificial Intelligence**
  AURO University, Surat, India
  2024

Conferences & Workshops

- **Student Exchange Program**
  Russia
  Participated in a 45-day exchange program, gaining international exposure and experience in Aeronautical Engineering.

Education

Master of Science in Artificial Intelligence

AURO University, Surat, Gujarat

2022 – 2024 (Completed)

- Achieved **Gold Medal** with **9.04 CGPA**.
- Created a project for predicting used car prices with the help of machine learning concepts.
- Created a face detection project to identify and detect faces using deep learning concepts.
- Created a project on Automated Examination System with the help of Machine Learning and NLP (Natural Language Processing).
- Created a project on hand detection with the help of deep learning concepts to perform various functions like increase and decrease

volume in PC, capture screenshot, close thewindow, etc.

B. Tech Aeronautical Engineering

Parul Institute of Engineering and Technology, Vadodara, Gujarat

2014/2019

- Completed my bachelors with **First Class** scoring **6.50 CGPA**.
- Dissertation in Bird inspired wing for marine transportation and completed major project on the design of an aircraft wing by using passive flow separation method to reduce drag.
- Attended 6 weeks student exchange program at RUDN UNIVERSITY, MOSCOW RUSSIA. Learned subjects like optimization techniques

  andspace dynamics and completed project using Geo satellites with the help of QGIS software.
- Completed major project on CITY MANAGEMENT: ESTIMATED THE
- GROWTH OF SURAT CITY IN GUJARAT. Under remote sensing by using QGIS software in RUSSIA under student exchange program.
- Learned Russian culture and language for basic knowledge.

12th

S.G.M SHIROIYA ENGLISH SCHOOL • Navsari, Gujarat03/2015

CGPA: 6.80

10th

S.G.M SHIROIYA ENGLISH SCHOOL • Navsari, Gujarat03/2013

CGPA: 7.8

Skills

- **Programming Languages:** Python, R, MATLAB, SQL
- **Machine Learning Frameworks:** TensorFlow, Keras, Scikit-Learn, PyTorch
- **Data Analysis Tools:** Pandas, NumPy, Matplotlib, Seaborn
- **Other Tools:** Git, Jupyter Notebook, LaTeX
- **Soft Skills:** Research, Analytical Thinking, Problem-Solving, Communication

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Languages

ENGLISH, GUJARATI, HINDI, MARATHI

Hobbies

- Camping
- Reading

I hereby declare that all the above information given by me is true of my best knowledge.

Date: 03/10/2024 Jashank Desai.