Anshul Pandya

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Experience

- **Tata Consultancy Services** — System Engineer, (Research & Innovator, Full-time)
  iMobile 3.O - Backend Developer — *August 2021 - Present*
  - Involvement with ICICI iMobile app development team for updating the iMobile app from 2.O to 3.O.
  - Was working on Authentication service building and POS portal building.
  - Technologies: Java, Hibernate, Maven, MySQL.
- **Sardar Vallabhbhai National Institute of Technology, Surat** — Part Time Teaching Assistant
  Teaching Assistant (Part-time) — *August 2019 - July 2021*
  - **Lab - Data Structures and Algorithms**: Provided guidance, lectures, practice-sheets and evaluation for Algorithms and Data Structures.
  - **Lab - Artificial Intelligence and Machine Learning**: Created Lab Manual for AIML course. Provided guidance, lectures and evaluation for AIML.

Education

- **Sardar Vallabhbhai National Institute of Technology** — Surat, India
  Master of Technology - Computer Engineering; CGPA: 8.5 — *August 2019 - July 2021*
- **Parul Institute of Engineering & Technology** — Vadodara, India
  Bachelor of Technology - Computer Engineering; CGPA: 8.7 — *August 2014 - July 2018*

Technical Skills

- **Languages**: Python, Java, C++, C
- **Frameworks**: Numpy, Matplotlib, Scikit, PyTorch, OpenCV, Keras, Pyqt5, Django, Hibernate
- **Tools & IDE**: Git, Bitbucket, Jupyter Notebook, Eclipse, Spyder, VSCode, Sublime Text 3
- **Platforms**: Linux, Web, Windows
- **Soft Skills**: Leadership, Motivator, Time Management, Fairness, Learning & Adaptability, Focus

Projects

- **Trajectory Prediction for Autonomous Driving using Inverse Reinforcement Learning (Inverse Reinforcement Learning, Generative Adversarial Networks, Generative Adversarial Imitation Learning)**: (August 2020 - Present)
  - Inverse reinforcement and GAIL based algorithm to predict the future trajectories of the egocentric vehicle.
  - Algorithm was trained and test using KITTI and Sceneflow dataset and generate more accurate results which are very close to true next trajectories.
  - Tools used: Python, Pytorch, OpenCV, Numpy
- **Reading Multi-Modal Documents for Education 4.O (Image Classification, Deep Learning)**: (December 2020 - July 2021)
  - Extracting the content of book while book is in the manual flipping.
  - Built CNN based generalized algorithm that checks weather frame is good or bad and then extract the content using computer vision algorithms.
  - Tools used: Python, OpenCV, Keras, Tesseract
- **Signature Verification Using Shallow CNN (Convolutional Neural Networks, Image Processing)**: (January 2021 - August 2020)
  - Built offline signature verification algorithm to check weather signatures are genuine or forge.
  - Algorithm was trained and test using BH260 Hindi and Bengali dataset. Archived 82 % Accuracy on testing.
  - Tools used: Python, Keras, OpenCV, Sckit-Learn
- **Buyer's Place - An online Platform for all Services (Next Billion Users)**: (August 2017 - July 2018)
  - Created an online e-commerce platform for providing services to all kinds of local business.
  - Map based framework with smart search for the users. User can search the service in the nearby range with different types of filters.
  - Tools used: Python, Django, SQLite, Django-ORM, Bitbucket, JavaScript, HTML5, CSS

Additional Experience & Awards

- **Training & Placement Coordinator - M.Tech Computer Engineering, SVNIT Surat, India**: (August 2019 - July 2021)
  - Manage all students to progress and prepare required strategies to complete all programs.
  - First time full placement of M.Tech CoED batch 2019-21.
  - Collaborate with externship coordinator and program directors to administer all changes
- **NPTEL Certificate for Programming, Data Structures and Algorithms using Python by IIT Madras**: (August 2018)
  - Received 77 % marks (Elite) in certification exam
- **Graduate Aptitude Test in Engineering**: (2019)
  - Received 566 marks and 2966 rank