

VIREN PASALKAR

www.linkedin.com/in/pviren ◊ 410-369-6630 ◊ vpasalk1@jh.edu

EDUCATION

Johns Hopkins University, US

Aug 2022 - Dec 2023

Masters in Engineering Management (Major: Energy)

Classes: Energy & Climate Finance, Data Analytics, Risk & Decision Analysis, Energy Policy & Planning, Linear & Non-linear Optimization, Environmental & Resource Economics

Savatribai Phule Pune University, India

Aug 2016 - May 2020

Bachelors in Computer Science

TECHNICAL SKILLS

Coding: Python 3, R, C++, Data Engineer, LCA, OSI PI, NLP, SQL, Tableau, Power BI, Excel Solver

Ancillary: GHG Accounting, Bloomberg MC, Energy Modelling, Risk Assessment, Quantitative Analysis, SAM, QGIS, Statistical Analysis, GE-MAPS, Plexos, Problem Optimization, Carbon Markets

PROFESSIONAL EXPERIENCE

Research Analyst Intern, Solar Energy Industries Association (SEIA)

Sep 2023 - Present

- Economic analysis of solar viability for all schools in US using PVWatts and SAM under the solar decade vision
- Identified dormant brown-fields projects using OpenInfraMap to identify interconnection points for new solar
- Incorporated NER on Storage to identify potential clients and acquired Core Solar Certification within a week

Research Analyst Intern, S&P Global

Jun 2023 - Aug 2023

- Analyzed Coal data with lagged Natural Gas prices to determine its significance and co-relation to spot price
- Modelled price for Powder River Coal and assessed its negative covariance to wind capacity additions in MISO
- Quantified global wind outlook till 2050, accounting for sustainable transition considering the capacity credit

Accounting & Finance Teaching Assistant, JHU (top 1%)

May 2023 - Present

- Aided in setting syllabus & selected articles portraying real world examples of financial concepts for discussion
- Conduct weekly doubt-clearing sessions and guide students with regards to assignments and grade assignments

Developer, TCS

Nov 2020 - Jun 2022

- Performed data analysis of real-time production line data to ensure smooth manufacturing of pharmaceuticals
- Utilized EnterprisePI to set up analyses to keep tab on data and notify sites during an outage for quick recovery
- Troubleshooted data discrepancies to achieve exact replication of data for BI tools on level 4 Enterprise system

PROJECTS & CONSULTING EXPERIENCE

Facial Expression Synthesis using Voice Tone Analysis (Computer Society of India InApp 2020 winner)

- Utilized deep learning techniques for driving 3D facial animation conveying emotion and lip-syncing by audio
- Network learns to map input audio to the facial landmarks while considering one hot encoded emotions data
- Blender then renders 3D modeled facial animation capable of lip-syncing audio input while portraying emotion

Reduced time to administer critical antibiotics in Sepsis patients (Student Consultant, JHMI)

- Entrusted to achieve the golden hour for treatment of suspect Sepsis patients in the Adult Emergency Room
- Revamped supply-chain and proposed & improved communication channels to deal with constant alarm fatigue
- Reduced time to administer antibiotics by 26% in suspect Sepsis patients, mitigating potential mortality rate

Global market-entry strategy for Heat Recuperation Systems (Student Consultant, Sowillo Energy)

- Presented market entry opportunities and barriers for Sowillo's product in markets like India, China and US
- Prioritised and initiated potential tie-ups with customers from domains having synergy with clients product

COMMUNITY & LEADERSHIP

Taught Math for a semester to students affected by covid in US and for a year to under-privileged ones in India

Planned and oversaw a state level college event as Secretary of ACM chapter, PES MCOE, 2019

Volunteered at Robinhood Army for 5 years, where we distributed excess food to the poor

Participated in World Cleanup Day, 2018 where we carried out a river cleaning drive.