



Shashank Shekhar Verma

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Education

- **Veermata Jijabai Technological Institute (VJTI), Mumbai.** 2022
M.Tech – Electrical Engineering specialization in Control Systems. CGPA/Percentage: 8.01

Experience

- **E-MC² Lab, VJTI Mumbai** April 2024– Present
Project Research Assistant
 - Time Series Analysis.
 - Control System Design on Dspace.
 - Power system simulation on Typhoon.
 - Grid Connected Converter.
 - Motor Control.
 - Generative AI/ LLM/ RAG
- **International Gemological Institute, Mumbai** Aug 2021– Mar2024
Senior Executive AI Programmer
 - Handling all AI projects for the company.
 - Worked on computer vision projects.
 - Designed the deep learning architecture and deployed a deep learning model for the computer vision task.
 - Solved many AI issues using my coding skills and innovative ideas.
 - Used my data science skills to find meaningful patterns in company data.
 - Provided meaningful suggestions to the management team for business growth and customer retention based on my data analysis skills.
 - Developed frontend and managed backend.
- **Veermata Jijabai Technological Institute, Mumbai**
Teaching Assistant
 - Conducted Laboratory session for Microprocessor System 3rd Year B.Tech Electronics, Dynamical Systems 1st year M.Tech Control System and Sensor Transducers Final year B.Tech Electrical.

Research Projects

- 1. Identification of low frequency oscillation in Power System** 2020 – 2022
Used Stochastic Subspace Identification method along with SCUSUM(Sequential Cumulative Sum)method to estimate the dominant modes in Power System.
- 2. Forecasting in Power System** 2020 – 2022
Used RNN -LSTM and Statistical methods of Time Series modeling like ARMA, ARIMA, MA model for forecasting in power systems.
- 3. PI Design via Root Locus method** 2020 – 2022
Designing a controller for a system using the root locus method involves placing poles at desired locations to achieve the desired performance.

4. Robust Control of Adaptive Model Predictive Control using Online Model Estimation

2020 – 2022

An online model estimation technique for adaptive model predictive control (AMPC) using Recursive Polynomial Model Estimator (RPME).

5. Noise Filtering from a regular Time Series data

2023 – 2024

Using Subspace Identification method and traditional statistic method to get State Space Model then use this model in Kalman Filter to filter noise

Research Papers

- The paper by the name “[Dominant modes estimation using SCUSUM method along IEEE Conference Publication](#)” has been **published** in 30th Mediterranean Conference on Control and Automation 2022, Athens, Greece. 2022
- The paper by the name “[Robust Control of Adaptive Model Predictive Control using Online Model Estimation | IEEE Conference Publication | IEEE Xplore](#)”, has been **published** in Australian New Zealand Control Conference (ANZCC) 2022, Gold Coast, Australia. 2022

Certified Courses

- Coursera **Stanford** | Online certified **Machine Learning**([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- Coursera **IBM** | Online certified **Data Science?**([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- Coursera **IBM** | Online certified **Python for Data Science, AI & Development** ([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- Coursera **IBM** | Online certified **Data Analysis with Python**([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- Coursera **IBM** | Online certified **Python Project for Data Science**([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- Coursera **IBM** | Online certified **Databases and SQL for Data Science with Python**([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- Coursera **Google** | Crash Course on **Python**([Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera](#))
- DC DRIVE (SIEMENS SIMOREG 6 RA 70 DC MASTER) from ATI ,MUMBAI
- SIMATIC S7 300 PLC-PROGRAMMING AND APPLICATIONS from ATI , MUMBAI
- AC DRIVE (SIEMENS MICROMASTER-440) from ATI , MUMBAI
- DIGITAL MARKETING (GOOGLE CERTIFIED)

Strength and Qualities

- Good Presentation and Communication Skills
- Confident and Ready to take new challenges
- Hardworking and Responsible
- Innovative & creative

Technical Skills

Programming Languages:

MATLAB, PYTHON, R, C/C++, JAVA SCRIPT, SQL, HTML LATEX, php, C#

Software: MATLAB, Simulink, MS Office, LaTeX, DSPACE, CVX Toolbox, MPT Toolbox, CasADi

Hardware: dSPACE, Typhoon HIL, STM32F401RE, Arduino NANO 33 ble sense lite, FPGA, Opal-RT HIL Simulation, Raspberry pi 4,

MATLAB Skills:

MATLAB Onramp

Simulink Onramp

Control Design Onramp with Simulink

Computer Vision Onramp