Mehul Chattopadhyay

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Education

Vellore Institute of Technology Vellore, TN
B. Tech Electrical and Electronics Engineering *GPA: 3.23* Jul 2015 - Nov 2019

Experience

PricewaterhouseCoopers Kolkata, India
SAP ABAP Consultant May 2021 - Present

- Generated ZReports and Smart Forms for clients using SAP ABAP.
- Found and corrected bugs in code that led to 50% increase in the speed of data fetching and display.

OPA Technology Solutions Kolkata, India
Software Engineer Sep 2020 - March 2021

- Implemented better Data Structures to optimise CRUD functionality.
- Assigned role specific menus to differentiate and authorise user privileges.
- Implemented Add and Update Unit menus to facilitate easy access of authenticated and authorised role based privileges.
- Recognised and improved code inefficiencies that led to a 40% percent increase in overall application stability.

Embibe Bangalore, India
Consultant Feb 2020 - Sep 2020

- Product Development and Execution.
- Selecting correct design concepts for improvements to the current product.
- Creating powerful teaching narratives.
- Working with Embibe Pedagogy to enhance scripts with meta-information to describe their teaching context.

Skills

Programming Languages:	Java, Javascript, Python
Web Technologies:	Spring, Django, Mongo DB, Express.js, React.js, Node.js, AWS
Theoretical:	Data Structures and Algorithms, Computer Architecture, Linear Algebra, Calculus

Projects

Aircraft Pitch : System Modelling *Advanced Control Theory, MATLAB*
https://drive.google.com/open?id=10JDWKWRyPeVCv0f4Ma8JqFi7Yi4L9-Yo
This project presents design of a basic mathematical model of an aircraft system.

Modelling and design of a multivariable control system for single grid-connected inverters with LCL filter *MATLAB* https://drive.google.com/open?id=1q3WqQIF_sndbdwVm2lVCUFFG-QcweLBe
In this project, the inverters with different characteristics in a micro grid are modelled as a system Also, the control system design for single grid connected inverters with LCL filter is clarified and a dual-loop active damping control with capacitor current feedback is designed.

Banking Website *HTML, CSS, PHP*
https://drive.google.com/open?id=14H1IjtJ7ACtCH-gx2s8Hrl1uzkr7V4wO
Through this project, I aim to model some of the basic functionalities expected of any banking website. The site keeps the options and simple, easily visible to the user with adequate prompts and error messages as and where required. Error displays are kept at top priority throughout the project.

Short term electrical load forecasting using artificial neural networks *Python*
https://drive.google.com/open?id=0BwktnEsoj5c2cEkzMjZFVnR2T0xDTTlCbFRiczN6TXZpd1hV
Our approach uses a long short-term memory (LSTM)-based neural network with various configurations to construct forecasting models for short term aggregate load forecasting.

VSC-Based HVDC transmission system and Thyristor- Based HVDC transmission system
MATLAB/SIMULINK https://drive.google.com/open?id=138UTSGP42ivbRaa8gZHR4HNNQcnIpa9S

In this project I have modelled a force commutated Voltage-Sourced Converter High Voltage Direct Current(VSC-HVDC) transmission link and also the modelling of a High Volatge Direct Current Transmission Link using 12-pulse thyristor converters is done and a comparison is made between them.

Awards

Best Drummer 1. Pegasus, 2016 (CMC). 2. Battle of Bands, 2016 (Hindustan College). 3. Riviera, 2017 (Vellore Institute of Technology). 4. 8th Mile, 2017 (RVCE). 5. Saarang,2017 (IIT Madras). 6. Revels,2017(MIT). 7. Riviera, 2018(Vellore Institute of Technology). 8. Riviera, 2019(Vellore Institute of Technology).

2015-2019