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| --- | --- | --- | --- | --- | --- |
| Skills **Front-end & Software development**   * HTML | CSS | JavaScript * Python | Tkinter * VS code | PyCharm * GitHub | Bitbucket   **Mining Engineering**   * Solid Edge * Slide | Phase2 |Geoslope| Ansys| Oasys * MS Office * Tally – basic level   **Electronics and communication**   * Arduino IDE * WSN | IoT * Zigbee | XCTU * LORA | Ebyte * ThingSpeak * PythonAnywhere  Languages Tamil – Fluent (Native)  English – Proficient  Hindi – intermediate  Kannada – intermediate  Telegu – intermediate Contact PHONE:  +91 9047724886  WEBSITE:  [rajkumar.portfolio](https://rajkumarmarichamy.github.io/simple_Portfoli_rajkumarmarichamy/" \o "My website" \t "_blank)  Linked in:  <www.linkedin.com/in/rajkumarm1999>  EMAIL:  rajkumarmarichamy99@gmail.com  [twdraji1999@gmail.com](mailto:twdraji1999@gmail.com) Hobbies Homemaking and Reading |  | Raj kumar m  Mining Engineer – Holder of Second-Class Manger’s Certificate (Restricted) | | | |
|  | WORK EXPERIENCEDept of Mining Engineering, UCE, OU. [Since - May-2022]  Working as a lab assistant and perusing M.E Mining Engineering in part time. Vishwas Construction Industries Pvt Ltd. [Dec-2020 to Jan-2022]  Worked in the position of Graduate Engineer Trainee (Mining) for all mining activities. Project works  * “**Development of Slope Deformation Calculator Using Python based on Numerical Modelling parametric study for slope stability analysis and slope design**” aims to develop a python software that predicts slope’s deformation based on the results of Numerical Modelling parametric study using ANSYS software. * “**Development of Advanced Slope Monitoring System in Opencast Mines Using WSN and IoT**”, aims to develop an advanced slope monitoring system using wireless sensor networks, IoT and the Thingspeak cloud platform to provide an early warning in cases of slope failure. * “**Development of Trigger Action Response Plan for Advanced Slope Monitoring System Using Python**”, aims to develop a triggered action response plan using python for an advanced slope monitoring system. * “**Evaluating the Stability of Underground Coal Mine Pillars Using Numerical Modelling”,** aims to check the stability of rib pillars of underground coal mining using the Flac numerical modelling software as a parametric analysis.  Conference papers  * “**Overview of Real-time Slope Monitoring using Wireless Sensor Networks”** National Seminar on Key Trends in Occupational Safety, Health and Environment in Mining, May 2023, ESCI, Hyderabad. * “**Wireless Sensor Networks and Real-time Slope Monitoring – A brief Review**” International Conference on Emerging Trends in Engineering, Atlantis press, Apr 2023, UCE, OU, Hyderabad. (under publication). * “**Mining beyond earth: An overview of its importance**”, International symposium on “Recent Trends in Mining Industry”, Journal of Mines, Metals and Fules, August 2022, UCE, OU, Hyderabad. (Under Publication).  research papers  * “**Evaluation of dump slope stability using Slide, Geoslope and Phase2 Software**”, Journal of machines and computing, Anapub Publication, Jan 2022. * “**Factors affecting slope stability: A brief review**”, International journal of innovative science and research technology, May 2022.  EDUCATION | | | |
| University College of Engineering, Osmania University [2022 – 2025]  Masters of Mining Engineering  **CGPA: 8.4 ( I Sem)** | Acharya Institute of technology [2016 – 2020]  Bachelor of Mining Engineering  **CGPA: 7.36** | Bharathidasan Matriculation Higher Secondary School [2015 – 2016]  Higher Secondary  education  **Percentage: 80.41%** | Bharathidasan Matriculation Higher Secondary School [2013 – 2014]  Secondary  education  **Percentage: 88%** |