

# PANKAJ RANA

#2585, Sector 22 C, Chandigarh, 160022  
ranapankaj815@gmail.com

[www.linkedin.com/in/pankaj-rana-380219159](http://www.linkedin.com/in/pankaj-rana-380219159)  
+91 7018274569

## SOFTWARE PROFESSIONAL WITH DATA & ANALYTICS

*SQL • Power BI • HTML/CSS • Core Java*

Application Developer with knowledge of Database SQL, Power BI, HTML and CSS with focus on Data and Analytics.

- SQL: Oracle Database RDBMS
- Visualization: Power BI
- Frontend: HTML, CSS
- Java – Core Java
- GitHub, Visual Studio

## PROJECT EXPERIENCE

### Software Development Training.

*(Sep 2020 – Till Date)*

Learned software development life cycle (SDLC), frontend and backend technologies through various resources available online through w3school, Udemy, and edX. Completed training on HTML/CSS, SQL, Power BI.

### IoT Based Automated Irrigation System with Feedback Controller.

*(Sep2018 – May 2019)*

The aim of this project is to provide an efficient solution for automatic control of irrigation system with feedback signals. Automation process is done through the microcontroller-based technology with sensor integration. This system can be controlled manually as well as automatically. In manual control system, GSM is used as the state of communication. By sending commands through SMS, the pump can be controlled as required. If any one of the phases is not present, the three-phase detector circuit cut-off the running pump hence safeguarding it from damages.

--Language Used C, C++ – add Arduino mega 2560 Microcontroller

### Key Features:

- This system is useful for the developing countries where the water shortage is a major issue.
- It is a low-cost system and certainly a significant step towards the modernization of most basic agricultural operations like irrigation.
- Proper monitoring of crops for its maximum yield can be assisted by this system.
- The system checks whether there is enough water in the inlet water tank with the help of a water float switch which indicates the water level.
- In automatic control mode, the system keeps checking the feedback signals from sensors. Moisture sensor provides the data corresponding to the moisture content of the soil.

## EDUCATION AND CREDENTIALS

**Visvesvaraya Technological University Belgaum**, Srinivas Institute of Technology Mangalore, Karnataka  
*Bachelor of Engineering (BE), Electronics & Communication* 2020

**Himachal Pradesh Board of School Education**, Bharti Vidyapeeth Public Sr. Sec School, Baijnath 2014  
*12<sup>th</sup> Board*  
Class President

**Himachal Pradesh Board of School Education**, Him Model Public Sr. Sec School, Chadhiar 2012

*10<sup>th</sup> Board*

Class President

**Analyzing and Visualizing Data with Power BI** – Certificate course edX. Feb 2021

**Professional Development and Training** – Introduction to HTML and CSS, Soft skill training.

**Skills** – GitHub, Visual Studio, Microsoft Office, Data Analysis, Programming Language, Software Development, Design, Outlook, Customer Support.

**Languages:** ▪ English, Hindi, Kannada

---