PRATYUSH KUMAR PATNAIK

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EXPERIENCE

Game Content Analyst
Gameopedia Data Solutions

📅 November 2017 – Ongoing   ⚲ Hyderabad, India

- Researching, analyzing and compiling video game's data in a specific format as per the request of our clients.
- Labelling the raw unlabelled data with meaning full tags for machine learning.
- Consulting with technical staff and developing technical solutions, advising on options and risks of the system so that the Data Operations Teams are working at maximum comfort and efficiency.
- Identifying the impact of system shortfalls and immediately communicating to the affected parties on problem resolution.
- Automating the daily work process using Python. Using Python to extract information out very large data sets.
- Participating in process enhancement efforts, helping in the development of specifications, testing and validation.
- Training and Performing assessment of the new employees.
- Auditing and Reporting of Compliance violations.

KEY SKILLS

Programming Languages

C/C++ · C# · Embedded C · Python · R · HTML · CSS · MySQL · JavaScript · jQuery

Computational Softwares

MATLAB · NI LabVIEW · Solid Works

Miscellaneous Software

ImageJ · LATEX · NI Multisim · NI Ultiboard · Eagle

IDEs

Python Idle · Arduino IDE · Spyder · R Studio · Microsoft Visual Studio · Atom · TeXstudio

Machine Learning

Regression Analysis · Classification and Clustering Techniques · Natural Language Processing · Artificial Neural Network · pandas · NumPy · Matplotlib · scikit-learn · Keras

Knowledge Base

Analog / Digital Circuit Design and Development Techniques · Integrated Circuits · Embedded systems · Image Processing · Web Scraping · Selenium · Bootstrap

MY LIFE PHILOSOPHY

"Ancora Imparo" - I'm still learning - Michelangelo

EDUCATION

Masters in Biomedical Engineering (M. Tech) with Specialization in Medical Electronics and Instrumentation
National Institute of Technology (NIT)

📅 2015-2017   ⚲ Rourkela, India

GPA: 8.47/10

Bachelors in Applied Electronics and Instrumentation Engineering (B. Tech
Biju Patnaik University of Technology (BPUT)

📅 2010-2014   ⚲ Bhubaneswar, India

GPA: 8.05/10

STRENGTHS

Hard-working · Eye for detail · Motivator & Leader · Jack of All Trades

PERSONAL SKILLS

Communication   ●●●●●

Organization   ●●●●●

Documentation   ●●●●○

Creativity   ●●●●○

ACADEMIC PROJECT DETAILS

Wireless Intravenous Drip Rate Monitoring Device

📅 2016-2017   📍 Rourkela, India

Design and development of a device that can be used for the real-time monitoring of drip rate in the IV therapy. An Arduino micro-controller was used for the automation of the device. The monitoring system was completely mobile due to the implementation of Xbee wireless technology. This removed requirement of buttons to be integrated into the system, as every device could be accessed remotely from the monitoring room. For ease of monitoring multiple devices, a GUI was developed using MATLAB for this purpose. The system notified the operator about any abnormalities in the therapy along with the information of the patient currently experience the abnormality.

Transmission of Bioelectric Signals Using Visible light Communication

📅 2017   📍 Rourkela, India

Development of a device that can transfer bioelectric signals using visible light. The low-intensity medical signals were amplified and processed accordingly for their conversion into a light signal using an LED. The light signal was received by a detector and was processed to get the original signal back.

Green House Automation using Microcontroller

📅 2013-2014   📍 Bhubaneswar, India

Development of an automated greenhouse using Microcontroller AT89C51. The Microcontroller was programmed using Embedded C for controlling and maintaining temperature and humidity of the greenhouse.

PUBLICATIONS

- Patnaik, Pratyush Kumar, Suraj Kumar Nayak, Anilesh Dey, Sirsendu Sekhar Ray, and Kunal Pal. "Development of a wireless intravenous drip rate monitoring device." International Journal of Sensor Networks 29, no. 3 (2019): 159-170.

- Sharma Ankit, Pratyush K. Patnaik, Seemadri Subhadarshini, Suraj K. Nayak, Sirsendu S. Ray, D. N. Tibarewala, and Kunal Pal. "Designing of a Low-Cost Optical Density Meter for Medical Applications." In Environmental, Chemical and Medical Sensors, pp. 271-285. Springer, Singapore, 2018.

- Nayak Suraj K., Karan Pande, Pratyush K. Patnaik, Shankar J. Patel, Arfat Anis, Anilesh Dey, and Kunal Pal. "Understanding the effect of cannabis abuse on the ANS and cardiac physiology of the Indian women paddy-field workers using RR interval and ECG signal analyses." In Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), 2017, pp. 333-341. IEEE, 2017.

- Li-Fi based Bio-signal Transmission (Communicated).

- Pande, Karan, Ashirbad Pradhan, Suraj Kumar Nayak, Pratyush Kumar Patnaik, Biswajeet Champaty, Arfat Anis, and Kunal Pal. "Development of a voice-controlled home automation system for the differently-abled." In Bioelectronics and Medical Devices, pp. 31-45. Woodhead Publishing, 2019.

LANGUAGES

English   ●●●●●

Hindi   ●●●●○

Odiya   ●●●●○

INTERESTS AND ACTIVITIES

Learning new Technologies

Programming   Gaming

Swimming   Skating   Traveling

Reading Novels   Music   Movies

Manga and Comics   Anime   TV Series