Venkatesh Annasaheb Patil

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EDUCATION

PESU, Bengaluru

B. Tech in Electronics and Communications Engineering, *CGPA: 7.65*
Relevant course work: Computer Networking, Artificial Neural Networks, Machine Learning, Digital Signal Processing, Digital Image Processing,

PROFESSIONAL EXPERIENCE

HAL (Tejas Division), Bengaluru
Engineering Intern

- Studied the electronic pipeline, data stream and communication protocols amongst the electronics of the fighter jet Tejas.
- Group project and report on the improvement and optimalization of communications amongst the subsystems.

SKILLS

Programming languages: Python, C++, C, JavaScript
Computer software/ frameworks: MATLAB, Git, GNS3, WireShark, SimuLink, Virtuoso Cadence, Intel Quartus Prime, Xilinx Vivado. Jenkins, Terraform, AWS
Languages: Hindi, English, Marathi, Kannada

EXTRACURRICULAR

- Taekwondo Black Belt holder, National Referee, and State Level Bronze medalist under the World Taekwondo Federation
- Led teams to the Top Ten in 5 hackathons
- 2x hackathon winner (Psychathon @PESU, Bengaluru and Cypherquest @ DSAT&M, Bengaluru)
- 1x IEEE National Hackathon Winner (IEEE Runtime 24 Hackathon 2023 @ NHCE, Bengaluru)

PROJECTS

AI HealthBot

- Made a chatbot which was trained on 46 different medical textbooks to answer medical queries based on the symptom entered by the user.
- Tech stack used: Pandas, Keras, JavaScript, HTML and CSS for user interface.

Natural Disaster Management

- Developed a local P-2-P networking solution to help rescue natural disaster victims in a cell network affected area.
- Tech stack used: GNS3, WireShark, GSM/LTE, JavaScript, HTML and CSS for user interface.

Smart IoT Bandage for chronic wounds

- Developing a smart IoT bandage with in-situ drug delivery for chronic wounds particularly due to diabetes, near the foot.
- Tech stack being used: ESP32 (for prototyping), Python (for data analysis), and ReactJS.

Cervical Cancer detection and analysis

- Developing a machine learning model to classify cervical cancer cells in a given slide of biological cells, which can effectively reduce the cost of time by up to 40 times compared to the conventional methods of detection.
- Tech stack being used: CNN, keras, Pandas, HTML and CSS for user interface