Panchanand Jha

Software Development Engineer in Test | Researcher (AI/ML, Robotics, Data Science)

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Profile Summary

Researcher and SDET with 7+ years of experience in **Robotics, AI/ML, Data Science, and IoT** along with **6+ years in Quality Assurance & Software Testing**. Expertise in designing and executing automation frameworks, developing AI/ML models, and ensuring high-quality software delivery. Strong knowledge of **Python, JavaScript/TypeScript, R, Swift, Selenium, WebdriverIO, XCUITest, Robot Framework, TensorFlow, PyTorch, Tableau, and OpenCV**. Passionate about solving real-world challenges and bridging research with industry solutions.

Core Skills

- **Testing & QA:** UI/API Automation (Selenium, WebdriverIO, Playwright, Robot Framework, XCUITest), Manual Testing, Regression Testing, Agile, Jira, postman

- **AI/ML & Data Science:** Python, R, TensorFlow, PyTorch, PyTorch Transformer based models, OpenCV, NLP, Tableau,

- **Development & Tools:** Python, JavaScript, TypeScript, Swift, Flask, Node-RED, GitLab, Heroku, Streamlit, MySQL

- **Domains:** Robotics, IoT, OTT Platforms, Healthcare Analytics, Data Forecasting

Professional Experience

Zucitech Software Solutions, Bengaluru, India
Software Development Engineer in Test (Sep 2022 – Present)

- Worked on **Disney+ projects (Falcon, Screeners Re-platform, ESPN Fantasy, Artwork & Metadata Project etc.)**.

- Worked on Disney+/Hotstar API related projects using Python with Robot framework

- Designed automation frameworks using **WebdriverIO, Robot Framework, Selenium, XCUITest**.

- Conducted regression, functional, and mobile app testing for large-scale OTT and sports applications.

- Reported and tracked bugs using **Jira**, collaborated with Agile teams, and optimized QA processes.

Raghu Educational Institutions, Visakhapatnam
Research Professor – Robotics, AI/ML, Automation QA (Apr 2016 – Aug 2022)

- Led academic research in Robotics and Machine Learning while mentoring students.

- Delivered projects in **AI/ML, NLP, IoT, and automation testing**.

- Published multiple **SCI/Scopus research papers, patents, and books**.

- Developed predictive ML models (commodity forecasting, medical NER, mortality risk analysis).

Education & Certifications

- **Ph.D. (Industrial Design, Robotics & Machine Learning)** – NIT Rourkela, 2016

- **M.Tech (Mechanical Engineering)** – NIT Rourkela, 2009

- **B.Tech (Industrial & Production Engineering)** – GGU Bilaspur, 2007

Certifications:

- IBM Machine Learning with Python (2021)

- Data Science (360digitmg, 2021)

- Tableau & Tableau Prep (360digitmg, 2021)

Selected Projects

- **Defect Checker (Zucitech, 2022):** Fine-tuned Hugging Face transformer model for defect classification.

- **Disney+ Falcon & OTT Projects:** Automation testing for large-scale streaming applications.

- **Agricultural Price Forecasting (Innodatics, 2021):** ML models for commodity price prediction.

- **NER Model for Medical Journals (Innodatics, 2021).**

- **Mortality Risk Analysis (Innodatics, 2021):** Predictive analytics with Python & Tableau.

Patents & Publications (Highlights)

- **Granted Patent:** Rescue Robot for accident prevention (Indian Patent, 2023).

- 2 additional **published patents** in AI/ML applications.

- **20+ international journal & conference papers** in Robotics, AI/ML, and Data Science.

- Books: a) *Kinematics with Artificial Neural Networks* (2020), b) *OpenCV with Python* (2021).

Awards & Recognition

- Individual Appreciation Award (2023)

- Research Fellowships: a) Slovak Republic (2014), b) University of Pavia, Italy (2017)

- Ministry of Education Fellowship, Govt. of India

Personal Details

- **DOB:** 06 Sep 1985 | **Languages:** English, Hindi | **Marital Status:** Married

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