

Pradeep Balasubramani

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EDUCATION

Master of Science in Computer Science (Data Science)

May 2021

The University of Texas at Dallas, Dallas, TX

Bachelor of Engineering in Computer Science & Engineering

May 2018

NMAM Institute of Technology, Nitte, India

GPA – 8.81/10

TECHNICAL SKILLS

Python, R, JavaScript, Java, C/C++, C#, AngularJS, NodeJS, ReactJS, Unix | MongoDB, SQL, Oracle, Firebase | Tensorflow, PyTorch, Keras, Pandas, Numpy, Seaborn, Matplotlib | Linear Algebra, Statistics, Multivariable Calculus | Android Studio, Unity, MicroStrategy, Kibana, Splunk, Kafka | RaspberryPi, Arduino | KNN, Naïve Bayes, Random Forest

EXPERIENCE

Application Development Associate

May 2018 – June 2019

Accenture (Innovation Team), Bangalore, India

- Performed data analysis of system generated data by scrapping and pre-processing using Python, BeautifulSoup and Pandas. Successfully created dashboard for the transformed data through Splunk & AngularJS for smooth end-to-end monitoring within systems and reduced ticket resolution time by 70%
- Automated manual tasks using Python, Automation Anywhere & UiPath that resulted in the reduction of team effort by 80% and cost cutting by 30% in 9 months. Developed AlertBot using Java to alert resources on incoming tickets
- Brainstorming with leadership of the company to build an efficient & innovative solution for service integration and was rewarded for best performance. Interviewed & effectively participated in the recruiting process for the company

Research Intern

May 2017 – Aug 2017

Indian Institute of Technology – Bombay (FOSSEE Team), Mumbai, India

- Designed architecture and implemented hardware-software interface of 'Generic IoT Platform' to collect, store and visualize real-time data from IoT gadgets used by domestic users & data scientist using Node.js, Python and HTML

Software Engineering Intern

Jan 2017 – Mar 2017

Nitte Cooperative Society, Nitte, India

- Developed 'Management Information System' software using .NET frameworks & MySQL DB that includes invoice, stock and inventory management features. Decreased store management time by 85% and minimized errors by 99%

PUBLICATION

- "Analysis of Customer Churn prediction in Logistic Industry using Machine Learning" IJSRP 7(11) (ISSN: 2250-3153). <http://www.ijssrp.org/research-paper-1117.php?rp=P716953>
- "Generic IoT platform for Analytics in Agriculture" in the Springer Nature book "Studies in Big Data, Internet of Things and Analytics for Agriculture, Volume 2" 978-981-15-0662-8, 487204_1_En, (Chapter 11)

PROJECTS

- Text Classification** - Deep Learning model to categorize customer support queries in the context of a public service provider in India using Keras and TensorFlow; achieved accuracy of 82%
- Home Automation** – using Augmented Reality, Google Assistant, Unity, Flask REST API and RaspberryPi
- Predictive Analysis of Customer Churning** - Developed an AI prototype to predict customer churn and the probability to win an opportunity at an early stage of the customer engagement; attained accuracy of 92%
- Platform for Swarm Robotics** - Open source platform that allows multi-robot collaboration using AI and IoT
- Contributed to Pandas** - An open source data analytics library, by resolving bugs, code change and commits
- Water scheduling system** – Works based on the water requirement density of the region through ML and IoT; gives the daily statistics of water consumed by the users and total water quantity available in the region for usage
- Sentimental Analysis of Twitter Data** - Analysis and modelling of user's behaviour on Online Social Networks like Twitter using R programming

HONORS / AWARDS

- Hackathon Wins** – Pandas Hack, Smart India Hackathon, Wonder Coder (Mentor), IBNC, 20+ Coding Challenges
- Hackathon Finalist** – DEFI Hackathon, UnitedByHCL, Google India Hackathon, HackUTA
- Best Outgoing Student** - Awarded for students with distinguished achievement in the Department of Computer Science & Engineering and the recipient of Sanjeeth Shetty Leaders Fellowship Award
- SAKURA Student Exchange Program** - (One among the top 10 students selected) @Ritsumeikan University, Japan on 'Emerging Technologies and Advances in Artificial Intelligence' both in India and Japan
- Academic Excellence Award** - Awarded by Indus Foundation, USA in collaboration with Skill India, TV9
- Coursera Specialization** – Deep Learning, Machine Learning, Data Science, Web Development

LEADERSHIP

- President** of ACM Student Chapter, IoT Club - Mentored 15 student projects in the field of AI, ML, DS, IoT, Web. Established Google Applied CS using Android, Mozilla Club & Google Developer Student Club @ ACM
- Workshops Conducted** – Python Programming, Modelling and Animation, Guest Talk on IoT
- Founder & CEO** – AquaCare and Smart Shoppers – Govt. of Karnataka seed funded start-up projects