CHINMAY KALE

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EDUCATIONAL QUALIFICATIONS:

- **BS** **Computer Science**, Savitribai Phule **Pune University**, Pune, India. 07/2012 - 06/2016
  GPA: 3.5
- **MS** **Computer Science**, Rochester Institute of Technology, Rochester, NY, USA 08/2018 - Present
  Current GPA: 3.7

WORK EXPERIENCE:

Organization : Persistent Systems Ltd., Pune *July 2016 – July 2018*
Designation : Software Engineer
Projects :

- **BigFix Linux Patching**
  Linux Patching project involved creating a Python framework which is used with IBM Bigfix technology to patch the organization's Workstation OSes. Worked on **development** and **maintenance** of Python framework and also worked on different Linux Based OSes like SuSe, CentOS, Ubuntu, RedHat as a part of project requirement. Also handled testing and L3 issues for this project. *Technologies used* :- Python, Git, Jenkins, Shell, Bigfix
- **US Election(2016) Prediction using Sentiment Analysis on Twitter.(Hackathon Project)**
  This application takes target user tweets related to a particular topic and gives the user sentiments for that topic. **Designed** and **developed** this application for Persistent System's coding event.
  Technologies used : Python Flask, HTML, JavaScript, Bootstrap, Twitter API, MongoDB.

Organization : Language Intelligence Ltd., Rochester *August 2019 – December 2019*
Designation : Software Engineer Intern

- **Microservices Development**
  Developed generalized microservices(REST APIs) for providing Language Translation Services for our clients using Lightweight Workflow Engine in .NET. I **developed** the Communication Microservic and Project Open Microservice for our organization to create a new project and send emails, SMSes and Slack via Webhooks. Technologies for providing notifications to our employees about important *used* : C#, MSSQL, JSON and XML.

Research Assistantship at RIT - User Code Comprehension

Developed a python standalone application to gather data on the reader's eye movement while he is reading the source code by tracking the reader's gaze in two different paradigms: Traditional Object Oriented(OO) paradigm and new Data Context Interaction(DCI) paradigm. Then use the eye tracker data and data from the questionnaire and aggregate the data from eye tracker and also the readers' questionnaire to understand which paradigm is easier for users to comprehend and remember. *Technologies used* are Python, PyQt, TinyDB.

PROJECTS:

- **Mathematical Expressions Recognizer**
  Developed a Mathematical Expression Recognizer for reading and parsing handwritten math expressions. From given data of character traces, I performed **segmentation, geometrical** and **temporal feature extraction,character classification** and then **parsing of mathematical expression** as a whole by finding relationships between individual symbols in expression. The resulting mathematical expression was compared with ground truth from the dataset(CROHME dataset) with a decent accuracy of 64%. For the symbol classification we used Random Forest Classifier. **Language used** : Python, **Dataset used** : CROHME dataset.
- **Analytics on Sugar CRM using Microsoft Azure**
  This application analyzes the data in your SugarCRM account, predicts whether the product in consideration will be sold or not. Uses Single-SignOn. **Developed** a module interacting with CRM REST API using PHP and then used C# for storing the data on Azure Cloud(SQL). **Trained** the CRM data using Decision Tree algorithm.
  Technologies used: C#, PHP AzureML, SQL, SugarCRM RESTAPI, HTML, JavaScript and Bootstrap.

SOFTWARE SKILLS:

- Software Languages : Python, C#, JavaScript, ReactJS, NodeJS, HTML5, R, Java
- Tools and Frameworks : Microsoft Azure Cloud and ML, ASP.NET, Jupyter notebook, Jenkins, Git/ZenHub, Tortoise SVN, IBM-Bigfix, Visual Studio, Eclipse, SQL, MongoDB
- Operating Systems : Windows, Ubuntu, SuSE, Redhat, CentOS

ACHIEVEMENTS AND ACTIVITIES:

- Publication : **Analytics on SugarCRM using Microsoft Azure** in *International Journal of Innovations in Engineering Research and Technology (IJIERT-P15-669).*