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Summary –

As a researcher in Data Mining lab of Ajou University, South Korea. I worked on Biomedical Informatics using data mining techniques and also involved in preprocessing procedures such as compression techniques of large scale data etc.,. My thesis and research comprises of, identifying weaker as well as stronger genomic associations of cancer causing genes and revealing a network structure of genomics and their associations. I also have good understanding on text and image mining and possess greater interest on data mining.

Having 6+ (2005 ~ 2011) years of experience in programming R, MATLAB, C, VB.Net, IBM U2, ASP.NET. Has good knowledge of databases like SQL Server 9.0/2005 and PL-SQL. Have strong analysis, design, coding, and implementation skills and also involved in the complete life cycle of the project. Has exposure towards quality procedures pertaining to project. Has good communication and interpersonal skills.

Research Interest: Bio-informatics, Data Visualization and Analyzing Biomedical data using visualization techniques.

Education –

- **International Institute of Information Technology**, Bangalore, India
 - **PhD.** in Data Sciences, *August 2016 ~ Till Date*
 - Advised by Professor: **Jaya Sreevalasan Nair** (<http://www.iiitb.ac.in/GVCL/>)

- **Ajou University**, Suwon, Korea
 - **M.S.** in Computer Science, *August 2015*
 - Advised by Professor: **Kyung-Ah Sohn** (<https://sites.google.com/site/kasohn/>)
 - Thesis title: Investigating Genomic Associations by Fusing Regression Methods on Cancer Profiles

- **Kyung hee University**, Suwon, Korea
 - **Korean Language**, *March 2013 - June 2013*

- **Sri Krishna Devaraya University (SKU)**, Kurnool, India
 - **Bachelors** in Electronics and communications Engineering, *May 2005*

Publications –

1. **Reddy Rani Vangimalla**, Hyun-hwan Jeong, Kyung-Ah Sohn. Integrative regression network for genomic association study. **BMC Medical Genomics 9(Suppl 1):31, 2016.**
<https://bmcmmedgenomics.biomedcentral.com/articles/10.1186/s12920-016-0192-7>
2. **Reddy Rani Vangimalla**, Kyung-Ah Sohn, *Discovering genomic associations on cancer datasets by applying sparse regression methods. LNEE 339:713-720 (Proceedings of the 6th International Conference on Information Science and Applications, Feb 24-26, 2015, Pattaya, Thailand).* http://link.springer.com/chapter/10.1007/978-3-662-46578-3_84
3. **Reddy Rani Vangimalla**, Kyung-Ah Sohn, *Association Networks Constructed from Heterogeneous High-dimensional Genomic Features. Communications of the Korean Institute of Information Scientists and Engineer (KIISE) 32(3):54-60, 2014.*
<http://www.dbpia.co.kr/Journal/ArticleDetail/3404056>

Patent –

- **Name of Invention** - *Integrative Regression Network*
- **Patent Administration No** - SA20150210 (In Progress)

Work Experience –

- **SPAN Infotech**, as a senior software engineer (October 2005 ~ October 2011): 6 years
<http://www.spansystems.com/>

Projects –

January 2017 ~
Till Date

Foundation for Research in Health Systems(FRHS) - HealthViz Technologies – HTML, SVG, and CSS

It is a data visualization project that demonstrates the new born child and mother data. Different visualization techniques, like Heat map, parallel coordinates, scatter plot etc., is used for data representation and data analysis. Multivariate data is plotted and understood, where the parameters (focus of interest) can be added (or) removed based on user's preference.

March 1st 2010 ~
October 2011

Vendor Management Tool (Senior Software Engineer)
Technologies – ASP.NET 3.5, LINQ, SQL 2005

The Vendor Management Tool has a facility to manage vendors, by having all high level details of their vendors. The tool captures contract, site visit, Annual Testing, Assessment, Contract Languages (Emergency Response, Business Continuity, Crisis Management, Disaster Recovery, Vendor Signed Non-disclosure agreement) ,and Capabilities of the vendor. The tool also manages to capture the vendor manager responses for the Checklist (Pack, NPL, and Concept assessment). The tool manages the engagement requests and workflow.

February 2010 ~
October 2011

Vendor Segmentation (Senior Software Engineer)

Technologies – ASP.NET 3.5, Silverlight3.0, LINQ, Oracle 10g

The Vendor Segmentation Tool segments vendors according to Financial and Risk profiles, segment the vendors as Routine, Leverage, Critical, or Strategic. The system allows client to rate the vendors against several topics and calculate the point of importance for these vendors with respect to the client. The system allows the management of each vendor score details and generates detailed reports/scorecard for each vendor. The system allows client vendor manager to take up certification exam and also generates reports and certificates for these certification exams.

August 2007 ~
October 2011

Phoenix – Payment Domain (Software Engineer ~ SSE)

Technologies – ASP.NET, Web services 3.0, Windows service, Data Junction, Oracle 10i

Client is dealing with online payments to various segments in the industry related to Electronic Presentments and in this application, Billers' (Insurance firms, Service companies, Government Agencies like water board, tax departments, courts, Police etc) would upload the data (Bill data) pertaining to the payments that are to be made towards the service/transactions to them by the consumers/public on to this application. The consumer/public would log on to the application and make the payments towards the same. Once the payments details are provided by the consumers in to the system, system would interface with payment gateways and have the payment process completed. The Remittance and return details received from the clearance houses are passed back to the billers (Business units).

April 2007 ~
August 2007

ClaimScape (Software Engineer)

This is a user guide which will be used by the General Users of the system. This includes Customer Service group, Data Entry users, Physicians, Health Group Administrators and System Administrators. The User Guide serves as a tool for learning and as a reference guide for user to work on different sections of the Claimscape application. Using this Guide, user will be able to Search, Add, Maintain, Delete, View Claim details etc,

May 2006 ~
April 2007

Insurance solution for windows (Software Engineer)

Technologies – IBM U2, VB 6.0

IS4W is an integrated 'back-office' processing system for insurance companies. It incorporates modules for Underwriting support, Claims Management, and AR/AP for premium billing and premium/commission/claims payables. Additionally, there are optional modules for Diary, Correspondence, Notes, and more.

October 2005 ~
May 2006

Helium (Search Engine) (Junior Software Engineer)

Technologies – VC++ (With windows application)

A bulk data will be provided in different types of documents. All the data will be transferred into text files without any junk characters and loose of information. Finally this information is preserved for further processing. In this process of tracing the information, Law firm will load the collection and index into a database. Then reviewers can review the resultant files fetching from the collection with the help of search module.

Technical Skills –

Platform	Microsoft Visual Studio .NET
Languages	R, MATLAB, C (moderate), VB.Net & ASP.NET
RDBMS	SQL 2005, Oracle 10g
Technologies	ASP.NET, Silverlight3.0, WCF, HTML, JAVA SCRIPT and XML
Tools and Utilities	Visual Studio 2008, VSS 6.0, Spectrum, StyleCop and FxCop code review tools, Toad, PL\SQL developer and SVN

Soft Skills –

Managerial Skill	Managed different types of Billing Harbor projects.
Mentoring	Mentored for SPAN interns.
Communication	Possess excellent communication and interpersonal skills
Process Knowledge	CMM and ISO knowledge.